

In-Service
Year: 2027

Project Name: **GAINESVILLE #2 - BULL SHOALS 161 KV TRANSMISSION LINE, REBUILD**

Description: Rebuild the 24.42 mile-long Gainesville #2 - Bull Shoals 161 kV transmission line 795 ACSR at 100°C.

Supporting
Statement: The Gainesville - Bull Shoals 161 kV transmission line overloads under contingency.

In-Service
Year: 2027

Project Name: **MANSFIELD - GAINESVILLE #2 161 KV TRANSMISSION LINE, REBUILD**

Description: Rebuild the 31.58 mile-long Mansfield - Gainesville #2 161 kV transmission line with 795 ACSR at 100°C.

Supporting
Statement: The Mansfield - Gainesville 161 kV transmission line can overload under contingency.

In-Service
Year: 2028

Project Name: **MORGAN - BROOKLINE 161 KV TRANSMISSION LINE, REBUILD**

Description: Rebuild the 26.49 mile-long Morgan - Brookline 161 kV transmission line with 795 ACSR at 100°C.

Supporting
Statement: The Morgan - Brookline 161 kV transmission line overloads under contingency.

In-Service Year:	2027
Project Name:	BUSH RIVER TIE 115/100 KV AUTOTRANSFORMERS, REPLACE
Description:	Replace existing 115/100 kV autotransformers 7 and 8 with new transformers. Project is part of Red Zone 2.0.
Supporting Statement:	Various generator interconnection studies have shown the need to upgrade this line. This upgrade is needed to enable generation consistent with the approved IRP.
In-Service Year:	2027
Project Name:	LAKEWOOD TIE - WOODLAWN TIE 100 KV TRANSMISSION LINES, REBUILD
Description:	Rebuild 2 miles (Lakewood Tie - Remount Rd Retail) of the Lakewood Tie - Woodlawn Tie 100 kV transmission lines with 795 ACSS/TW at 200°C.
Supporting Statement:	The Lakewood Tie - Woodlawn Tie 100 kV transmission lines can overload under contingency.
In-Service Year:	2027
Project Name:	LANCASTER MAIN - MONROE MAIN 100 KV TRANSMISSION LINE, REBUILD
Description:	Rebuild 23.8 miles of Lancaster Main - Monroe Main 100 kV double circuit transmission line with 1158 ACSS/TW at 200°C. ACSS/TW conductor used is considered an alternative transmission technology.
Supporting Statement:	Lancaster Main - Monroe Main 100 kV transmission line can overload under contingency.
In-Service Year:	2027
Project Name:	LAWSONS FORK TIE - WEST SPARTANBURG TIE 100 KV TRANSMISSION LINES, INSTALL RAS
Description:	Install a remedial action scheme on the Lawsons Fork Tie - West Spartanburg Tie 100 kV transmission lines.
Supporting Statement:	The Lawsons Fork Tie - West Spartanburg Tie 100 kV transmission lines can overload under contingency

In-Service
Year: 2027

Project Name: **LEE CC - BELTON TIE 100 KV TRANSMISSION LINE, REBUILD**

Description: Rebuild the entire Lee CC - Belton Tie 100 kV transmission line (6.4 miles) with 1533 ACSS/TW at 200°C. Project is part of Red Zone 2.0. ACSS/TW

Supporting
Statement: Various generator interconnection studies have shown the need to upgrade this line. This upgrade is needed to enable generation consistent with the approved IRP.

In-Service
Year: 2027

Project Name: **OAKBORO TIE - LILESVILLE TIE (DEP) 230 KV TRANSMISSION LINE, REBUILD**

Description: Rebuild 5.13 miles (Oakboro to DEP change of ownership) of the Oakboro Tie - Lilesville Tie (DEP) 230 kV transmission line with bundled 1272 ACSR at 120°C. Project is part of Red Zone 2.0.

Supporting
Statement: Various generator interconnection studies have shown the need to upgrade this line. This upgrade is needed to enable generation consistent with the approved IRP.

In-Service
Year: 2027

Project Name: **OAKVALE TIE - EAST GREENVILLE TIE 100 KV TRANSMISSION LINE, REBUILD**

Description: Rebuild 4.5 miles (East Greenville - Verdae Retail) of the Oakvale Tie - East Greenville Tie 100 kV double circuit transmission line with 795 ACSS/TW at 200°C. ACSS/TW

Supporting
Statement: The Oakvale Tie - East Greenville Tie 100 kV transmission line can overload under contingency.

In-Service
Year: 2027

Project Name: **OAKVALE TIE - SHADY GROVE 100 KV TRANSMISSION LINES, UPGRADE**

Description: Replace switches on the Oakvale Tie - Shady Grove 100 kV Transmission Lines in order to increase the rating of the line to the conductor rating

Supporting
Statement: The Oakvale Tie - Shady Grove Tie 100 kV Transmission Lines can overload under contingency

In-Service
Year: 2027

Project Name: **STONEWATER TIE - WESTFORK SWITCHING STATION 100 KV TRANSMISSION LINES, REBUILD**

Description: Rebuild 3 miles (Wildcat Tie - Westfork Switching Station) of the Stonewater Tie - Westford Switching Station 100 kV transmission line with 1272 ACSR at 120°C.

Supporting
Statement: The Stonewater Tie - Westfork Switching Station 100 kV transmission line can overload under contingency.

In-Service
Year: 2028

Project Name: **ASHE ST SWITCHING STATION - PARKWOOD TIE 100 KV TRANSMISSION LINE, RECONDUCTOR**

Description: Reconductor 2.6 miles (Research Triangle Retail - Ellis Rd Retail) of the Ashe St Switching Station - Parkwood Tie 100 kV transmission line with 795 ACSS/TW at 200°C.

Supporting
Statement: The Ashe St Switching Station - Parkwood Tie 100 kV transmission lines can overload under contingency.

In-Service
Year: 2028

Project Name: **BUSH RIVER TIE - CRETO TIE 100 KV TRANSMISSION LINE, REBUILD**

Description: Rebuild 8 miles (Bush River Tie - Newberry PV) of the Bush River Tie - Buzzard Roost 100 kV transmission line with 1158 ACSS/TW at 200°C. Project is part of Red Zone 2.0. ACSS/TW

Supporting
Statement: Various generator interconnection studies have shown the need to upgrade this line. This upgrade is needed to enable generation consistent with the approved IRP.

In-Service
Year: 2028

Project Name: **CLIFFSIDE STEAM - SHELBY TIE 100 KV TRANSMISSION LINES, REBUILD**

Description: Rebuild 5.4 miles (Shelby Tie - Customer Tap Station) of the Cliffside Steam - Shelby Tie 100 kV transmission lines with 1272 ACSR at 120°C.

Supporting
Statement: The Cliffside Steam - Shelby Tie 100 kV transmission lines can overload under contingencies.

In-Service
Year: 2028

Project Name: **DURHAM MAIN - ASHE ST SWITCHING STATION 100 KV TRANSMISSION LINE, REBUILD**

Description: Rebuild the entire circuit of the Durham Main - Ashe St Switching Station 100 kV transmission line with 1272 ACSR at 120°C.

Supporting
Statement: The Durham Main - Ashe St Switching Station 100 kV transmission line can overload under contingencies.

In-Service
Year: 2028

Project Name: **HARRISBURG TIE - CONCORD MAIN 100 KV TRANSMISSION LINES, REBUILD**

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.

Supporting
Statement: The Harrisburg Tie - Concord Main 100 kV transmission lines can overload under contingency.

In-Service
Year: 2028

Project Name: **HARRISBURG TIE 230/100/44 KV AUTOTRANSFORMER, REPLACE**

Description: Replace existing 230/100/44 kV autotransformer 3 with new larger autotransformer.

Supporting
Statement: Harrisburg Tie 230/100/44 kV autotransformer 3 can overload under contingency.

In-Service Year:	2028
Project Name:	LAWSONS FORK TIE - WEST SPARTANBURG TIE 100 KV TRANSMISSION LINE, REBUILD
Description:	Rebuild 4 miles (Lawsons Fork Tie - Una Retail) of the Lawsons Fork Tie - West Spartanburg Tie 100 kV transmission line with 1272 ACSR at 120°C.
Supporting Statement:	The Lawsons Fork Tie - West Spartanburg Tie 100 kV transmission line can overload under contingency.
In-Service Year:	2028
Project Name:	N GREENVILLE TIE AUTOTRANSFORMER 230/100/44 KV, REPLACE
Description:	Replace existing bank 1 with new larger 230/100/44 kV autobank. Replace existing 230 kV and 44 kV oil breakers with gas breakers.
Supporting Statement:	Existing N Greenville 230/100/44 kV tie bank 1 can overload under contingency.
In-Service Year:	2028
Project Name:	NORTH GREENSBORO TIE - GREENSBORO MAIN 100 KV TRANSMISSION LINES, REBUILD
Description:	Rebuild both of the North Greensboro Tie - Greensboro Main 100 kV transmission lines with 1158 ACSS/TW at 200°C. ACSS/TW conductor used is considered an alternative transmission technology.
Supporting Statement:	The North Greensboro - Greensboro Main 100 kV transmission line can overload under contingency.
In-Service Year:	2028
Project Name:	NORTH GREENVILLE TIE - PISGAH TIE 100 KV TRANSMISSION LINE, REBUILD
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 line can overload under contingencies.

In-Service Year:	2028
Project Name:	SHELBY TIE 230/100/44 KV AUTOTRANSFORMER, REPLACE
Description:	Replace existing 230/100/44 kV autotransformer 3 with new larger autotransformer.
Supporting Statement:	Shelby Tie 230/100/44 kV autotransformer 3 can overload under contingency.
In-Service Year:	2028
Project Name:	TIGER TIE AUTOTRANSFORMER, REPLACE
Description:	Replace existing autotransformer 5 with new larger autotransformer.
Supporting Statement:	Tiger Tie autotransformer 5 can overload under contingency.
In-Service Year:	2028
Project Name:	WINECOFF TIE - CONCORD MAIN 100 KV TRANSMISSION LINE, RECONDUCTOR
Description:	Reconductor the entire Winecoff Tie - Concord Main 100 kV transmission line (3.5 miles) with bundled 336 ACSR at 120°C.
Supporting Statement:	The Winecoff Tie - Concord Main 100 kV transmission lines can overload under contingency.
In-Service Year:	2028
Project Name:	WINECOFF TIE - CONLEY SWITCHING STATION 100 KV TRANSMISSION LINES, REBUILD
Description:	Rebuild 7.9 miles (Winecoff - Eastfield Retail) of the Winecoff Tie - Conley Switching Station 100 kV transmission lines with 1272 ACSR at 120°C. P
Supporting Statement:	The Winecoff Tie - Conley Switching Station 100 kV transmission lines can overload under contingency.

In-Service Year:	2029
Project Name:	HODGES TIE SWITCHYARD 230KV, EXPANSION
Description:	Expand the 230 kV switchyard at Hodges Tie to a full breaker and a half layout. Install an additional autotransformer.
Supporting Statement:	The Hodges Tie - Belton Tie 100 kV transmission lines can overload under contingencies.
In-Service Year:	2029
Project Name:	LEE CC - LEE STEAM 100 KV TRANSMISSION LINE, CONSTRUCT
Description:	Construct a new 100 kV busline between Lee CC and Lee Steam with 1158 ACSS/TW at 200°C. ACSS/TW conductor used is considered an alternative transmission technology.
Supporting Statement:	The Lee CC - Lee Steam Station 100 kV transmission lines can overload under contingency.
In-Service Year:	2029
Project Name:	PARKWOOD TIE - CUSTOMER STATION 100 KV TRANSMISSION LINE
Description:	Extend the Parkwood Tie - Customer Station 100 kV (14.4 miles) and network with East Durham Tie 100 kV. Conductor for the extension will be 1272 ACSR conductor at 120°C.
Supporting Statement:	To help address thermal loading issues throughout the region around Parkwood Tie, the Parkwood Tie - Customer Station 100 kV will be extended and networked with East Durham Tie 100 kV.
In-Service Year:	2030
Project Name:	EAST DURHAM TIE 100 KV, EXPANSION
Description:	Expand East Durham Tie and establish two new 100 kV terminals for the future East Durham - Parkwood Tie 100 kV transmission line.
Supporting Statement:	The East Durham Tie - Ashe St Switching Station 100 kV transmission line can overload during contingency.

In-Service
Year: 2030

Project Name: **MORNING STAR TIE 230 KV, 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 transformers.

Supporting
Statement: The existing banks at Morning Star can overload for the loss of one or more of the parallel banks. The second Newport - Morning Star 230 kV Lines needs an expanded Morning Star Tie

In-Service
Year: 2030

Project Name: **STATESVILLE TIE - MOORESVILLE TIE 44 KV TRANSMISSION LINE, REBUILD**

Description: Rebuild 7.9 miles (Statesville Tie - Perth Rd Retail Tap) of the Statesville Tie - Mooresville Tie 44 kV transmission line with 954 ACSR at 120°C as double circuit

Supporting
Statement: The existing Statesville Tie - Mooresville Tie 44 kV transmission line can overload.

In-Service
Year: 2031

Project Name: **CENTRAL TIE 230 KV, INSTALL**

Description: Install a 230 kV series bus junction breaker at Central Tie 230 kV.

Supporting
Statement: Contingencies involving the single bus junction breaker at Central Tie 230 kV can cause a number of 100 kV overloads throughout the region.

In-Service
Year: 2031

Project Name: **CLIFFSIDE TIE, ADD TRANSFORMER**

Description: Add a 500/230 kV Autobank at Cliffside Tie, construct bus line between Cliffside Tie and Cliffside 5, and install 3% reactors on the Cliffside 5 230/100/44 kV autobanks

Supporting
Statement: The Newport Tie 500/230 kV Autobank can overload under contingency

In-Service
Year: 2031

Project Name: **ENO TIE - CREST STREET SWITCHING STATION 100 KV**

Description: Correct clearance issues on the Eno Tie - Crest Street Switching Station 100 kV to improve ratings of the existing bundled 477 ACSR conductor to 120°C.

Supporting
Statement: The Eno Tie - Crest Street Switching Station 100 kV transmission lines can overload under contingency.

In-Service
Year: 2031

Project Name: **ORCHARD TIE - HICKORY TIE 100 KV TRANSMISSION LINES, REBUILD**

Description: Rebuild 4.2 miles (Orchard Tie - Newton Tie Tap) of the Orchard Tie - Hickory Tie 100 kV transmission line with 1272 ACSR conductor at 120°C.

Supporting
Statement: The Orchard Tie - Hickory Tie 100 kV transmission lines can overload under contingency.

In-Service
Year: 2032

Project Name: **HARRISBURG TIE - MINE SHAFT RETAIL 100 KV TRANSMISSION LINE, CONVERSION**

Description: Convert the existing Harrisburg Tie - Univ of N C Charlotte 44 kV transmission line to 100 kV to establish a second 100 kV circuit of the Harrisburg Tie - Mine Shaft Retail 100 kV transmission line.

Supporting
Statement: The Harrisburg Tie - Concord Main 100 kV transmission lines can overload under contingency.

In-Service
Year: 2032

Project Name: **PLEASANT GARDEN TIE - MEBANE TIE 100 KV TRANSMISSION LINE, REBUILD**

Description: Rebuild 1.73 miles (Mebane Tie - Trollingwood Retail) of the Pleasant Garden - Mebane Tie 100 kV transmission line with 1272 ACSR at 120°C.

Supporting
Statement: The Pleasant Garden Tie - Mebane Tie 100 kV transmission lines can overload under contingency.

In-Service
Year: 2033

Project Name: **DAN RIVER STEAM - NORTH GREENSBORO TIE 100 KV TRANSMISSION LINES, REBUILD**

Description: Rebuild the entire Dan River Steam - North Greensboro 100 kV transmission lines (25.9 miles) with 1272 ACSR at 120°C.

Supporting
Statement: The Dan River Steam - North Greensboro Tie 100 kV transmission lines can overload under contingency.

In-Service
Year: 2033

Project Name: **DAN RIVER STEAM - SADLER TIE 100 KV TRANSMISSION LINES, REBUILD**

Description: Rebuild the entire Dan River Steam - Sadler Tie 100 kV transmission lines (8.1 miles of Reidsville Circuits and 8.2 miles of Wolf Creek Circuits) with 1272 ACSR at 120°C.

Supporting
Statement: The Dan River Steam - Sadler Tie 100 kV transmission lines can overload under contingency.

In-Service
Year: 2033

Project Name: **DIXON SCHOOL RD - CUSTOMER DELIVERY 230 KV TRANSMISSION LINE, CONSTRUCT**

Description: Construct a new 1.3 mile 230 kV transmission line from Dixon School Rd to a customer delivery station with 954 ACSR at 120°C.

Supporting
Statement: To support additional customer growth in the region.

In-Service
Year: 2033

Project Name: **HARRISBURG TIE - AMITY SWITCHING STATION 100 KV TRANSMISSION LINE, REBUILD**

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.

In-Service
Year: 2033

Project Name: **MARSHALL STEAM - BECKERDITE TIE 230 KV TRANSMISSION LINE, UPRATE**

Description: Correct clearance issues on the Marshall Steam - Beckerdite Tie 230 kV transmission line to improve ratings of the existing 954 ACSR conductor to 120°C.

Supporting
Statement: The Marshall Steam - Beckerdite Tie 230 kV transmission line ratings can limit the operational flexibility of Belews Steam Station. Improving line ratings will remove that limitation.

In-Service
Year: 2033

Project Name: **MARSHALL STEAM STATION - BOYD SWITCHING STATION 230 KV TRANSMISSION LINE, REBUILD**

Description: Rebuild the entire 15 miles of the Marshall Steam - Boyd Switching Station 230 kV transmission line with bundled 1272 ACSR conductor at 120°C.

Supporting
Statement: The Marshall Steam - Boyd Switching Station 230 kV transmission lines can overload under contingency.

In-Service
Year: 2033

Project Name: **MCGUIRE NUCLEAR STATION - MARSHALL STEAM STATION 230 KV TRANSMISSION LINES, REBUILD**

Description: Rebuild the entire McGuire Nuclear Station - Marshall Steam Station 230 kV transmission lines with 1533 ACSS/TW at 200°C.

Supporting
Statement: The McGuire Nuclear Station - Marshall Steam Station 230 kV transmission lines can overload under contingency.

In-Service
Year: 2033

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 with 954 ACSR rated at 120°C.

Supporting
Statement: Existing Newport Tie - Morning Star Tie 230 kV transmission line can overload under contingencies.

In-Service
Year: 2033

Project Name: **OAK HOLLOW SWITCHING STATION 100 KV, CONSTRUCT**

Description: Construct a new switching station on the Beckerdite Tie - Greensboro Main 100 kV transmission lines
Project listed as conceptual in the local transmission plan. Need date may shift in future.

Supporting
Statement: The Beckerdite Tie - Greensboro Main 100 kV transmission lines can overload under contingencies.

In-Service
Year: 2033

Project Name: **SHELBY TIE 230/100/44 KV AUTOTRANSFORMER, REPLACE**

Description: Replace existing 230/100/44 kV autotransformer 4 with new larger autotransformer.

Supporting
Statement: Shelby Tie 230/100/44 kV autotransformer 4 can overload under contingency.

In-Service
Year: 2033

Project Name: **STAMEY TIE - STATESVILLE TIE 100 KV TRANSMISSION LINE, REBUILD**

Description: Rebuild the entire 6 miles of the Stamey Tie - Statesville Tie 100 kV transmission line with 1272 ACSR conductor at 120°C.

Supporting
Statement: The Stamey Tie - Statesville Tie 100 kV transmission lines can overload under contingency.

In-Service Year:	2034
Project Name:	DAN RIVER CC - DAN RIVER STEAM 100 KV TRANSMISSION LINES, REBUILD
Description:	Rebuild the entire Dan River CC - Dan River Steam 100 kV transmission lines (0.5 miles) with bundled 1158 ACSS/TW at 200°C.
Supporting Statement:	The Dan River CC - Dan River Steam 100 kV transmission lines can overload under contingency.
In-Service Year:	2034
Project Name:	MADISON TIE 100/44 KV, INSTALL TRANSFORMER
Description:	Add a second 100/44 kV autotransformer to Madison Tie. Project listed as conceptual in the local transmission plan. Need date may shift in future.
Supporting Statement:	The single 100/44 kV autotransformer at Madison Tie cannot support future load growth.
In-Service Year:	2034
Project Name:	RURAL HALL TIE- SHATTALON SWITCHING STATION 100 KV TRANSMISSION LINES, REBUILD
Description:	Rebuild both of the Rural Hall Tie - Shattalon Switching Station 100 kV transmission lines with 795 ACSS/TW at 200°C.
Supporting Statement:	Both of the Rural Hall Tie - Shattalon Switching Station 100 kV transmission lines can overload under contingencies.
In-Service Year:	2035
Project Name:	LOOKOUT TIE - MARSHALL STEAM 44 KV TRANSMISSION LINE, REBUILD
Description:	Rebuild the Lookout Tie - Marshall Steam 44 kV transmission line as double circuit with 954 ACSR at 120°C. Establish a 100 kV circuit served out of Lookout Tie.
Supporting Statement:	The Lookout Tie - Marshall Steam 44 kV transmission line can experience thermal and voltage issues under periods of extreme loading.

In-Service
Year: 2036

Project Name: **HARRISBURG TIE - MORNING STAR TIE 100 KV TRANSMISSION LINES, UPGRADE**

Description: Improve clearances along the Harrisburg Tie - Morning Star Tie 100 kV Transmission Lines to improve the line rating to 120°F

Supporting
Statement: The Harrisburg Tie - Morning Star Tie 100 kV Transmission Lines can overload due to contingency

In-Service
Year: 2036

Project Name: **HENDERSONVILLE - CAMPOBELLO TIE AND CAMPOBELLO TIE - TIGER TIE 100 KV LINES**

Description: Rebuild the Hendersonville Tie - Campobello Tie 100 kV Lines and the Campobello Tie - Tiger Tie 100 kV Lines with 1158 ACSS/TW rated at 200°C. Total miles rebuilt is 29.64 Miles.

Supporting
Statement: The Hendersonville Tie - Campobello Tie and Campobello Tie - Tiger Tie 100 kV Transmission Lines can overload under contingency

In-Service
Year: 2036

Project Name: **LONGVIEW TIE - LYLE CREEK SWITCHING STATION 100 KV TRANSMISSION LINE, REBUILD**

Description: Rebuild 3 miles (Longview Tie - North Lakes Retail) of the Longview Tie - Lyle Creek Switching Station 100 kV transmission line with 477 ACSS/TW at 200°C and network lines

Supporting
Statement: The Hickory Tie - Lyle Creek 100 kV, Lyle Creek - Lookout Tie 100 kV, and the Stamey Tie - Lookout Tie 100 kV transmission lines can overload under contingencies.

In-Service
Year: 2036

Project Name: **STAMEY TIE - LOOKOUT TIE 100 KV TRANSMISSION LINE, REBUILD**

Description: Rebuild 5.5 miles (Lookout Tie - Customer Delivery) of the Stamey Tie - Lookout Tie 100 kV transmission line with bundled 1272 ACSR at 120°C.

Supporting
Statement: The Stamey Tie - Lookout Tie 100 kV transmission lines can overload under contingency.

In-Service
Year: 2036

Project Name: **TIGER TIE - CAMPOBELLO TIE 100 KV TRANSMISSION LINE, REBUILD**

Description: Rebuild the entire 11.8 miles of the Tiger Tie - Campobello Tie 100 kV transmission line with 1272 ACSR conductor at 120°C.

Supporting
Statement: The Tiger Tie - Campobello Tie 100 kV transmission lines can overload under contingency.

In-Service
Year: 2036

Project Name: **WOODRUFF TIE - PACOLET TIE 100 KV TRANSMISSION LINES, UPGRADE**

Description: Upgrade ancillary equipment on the Woodruff Tie - Pacolet Tie 100 kV Transmission Lines to improve the line rating to 110°F

Supporting
Statement: The Woodruff Tie - Pacolet Tie 100 kV Transmission Lines can overload due to contingency

In-Service
Year: 2027

Project Name: **CLAYTON INDUSTRIAL - SELMA 115 KV TRANSMISSION LINE, REBUILD**

Description: Rebuild 9.4 miles of entire Clayton Industrial - Selma 115 kV transmission line to 795 ACSS/TW at 365°F.

Supporting
Statement: Various generator interconnection studies have shown the need to upgrade this line. This upgrade is needed to enable generation consistent with the approved IRP.

In-Service
Year: 2027

Project Name: **ROBINSON PLANT - ROCKINGHAM 115 KV TRANSMISSION LINE, REBUILD**

Description: Rebuild the Sneedsboro Solar - Cordova - Rockingham portions of the Robinson - Rockingham 115 kV transmission line using 795 ACSS/TW conductor at 365°F or equivalent (~17 miles).

Supporting
Statement: Various solar studies have shown the need for this upgrade. This upgrade is needed for future solar generation proposed for compliance with the Carbon Plan goals.

In-Service
Year: 2027

Project Name: **SUMTER - DESC EASTOVER 115 KV TRANSMISSION LINE (SUMTER GOLD KIST TAP - SUMTER KINGS HWY SECTION), REBUILD**

Description: Rebuild the 5.82 mile 397.5 ACSR portion (Sumter Gold Kist Tap - Sumter Kings Hwy section) of the Sumter - DESC Eastover 115 kV transmission line with 3-1272 MCM 45/7 ACSR 212°F conductor.

Supporting
Statement: Multiple contingencies cause the Sumter Gold Kist Tap - Sumter Kings Hwy section of Sumter - Eastover 115 kV transmission line to overload.

In-Service Year:	2027
Project Name:	WEATHERSPOON - LOF 115 KV TRANSMISSION LINE (MAXTON - PEMBROKE), REBUILD
Description:	Rebuild 9 miles (near Pembroke to near Maxton) with 3-795 MCM ACSS/TW 365°F. Install two new switches.
Supporting Statement:	The Maxton - Pembroke section of the Weatherspoon-LOF 115 kV transmission line overloads under contingency.
In-Service Year:	2028
Project Name:	BARNARD CREEK – CASTLE HAYNE 230 KV EAST LINE, UPGRADE SWITCHES 38A-1, 38A-2 TO 3000 A AND 41B-3 TO 2000 A
Description:	Upgrade switches on the Barnard Creek – Castle Hayne 230 kV East line.
Supporting Statement:	The Barnard Creek – Castle Hayne 230 kV East line overloads for various contingencies.
In-Service Year:	2028
Project Name:	BRUNSWICK 1 - BARNARD CREEK 230KV LINE, UPGRADE OOS RELAYS, CT RATIOS, LINE TRAP, AND LINE SWITCHES TO ALLOW US OF 2806 A LINE CONDUCTOR 32°F CW RATING
Description:	Upgrade Brunswick Plant equipment including OOS relay to 3000 A for the Castle Hayne 230 East line.
Supporting Statement:	Mutiple contingencies cause the Brunswick 1-Brunswick EMC Daws Creek POD section of the Brunswick 1-Castle Hayne 230 kV East line to overload.
In-Service Year:	2028
Project Name:	LILESVILLE - OAKBORO 230 KV BLACK AND WHITE LINES, REBUILD
Description:	Rebuild the entire DEP portion of Lilesville - Oakboro 230 kV Black and White lines to 6-1272 ACSR 212°F conductor.
Supporting Statement:	Various generator interconnection studies have shown the need to upgrade this line. This upgrade is needed to enable generation consistent with the approved IRP.

In-Service Year:	2028
Project Name:	METHOD-DPC EAST DURHAM 230 KV LINE UPGRADE LINE SWITCHES AND TERMINAL EQUIPMENT AT BOTH ENDS TO ALLOW FULL LINE CONDUCTOR 2546 A COLD WINTER RATING
Description:	Method - DPC East Durham 230 kV line, Upgrade relay settings and equipment at both ends of the line to get full cold winter rating.
Supporting Statement:	Various outages overload the Method – DPC East Durham 230 kV line.
In-Service Year:	2028
Project Name:	WAKE-ZEBULON 230KV LINE, UPGRADE CT RATIOS AND RELAY SETTINGS AT WAKE, UPGRADE LINE SWITCH 42-1, AND UPGRADE CT RATIOS AND RELAY SETTINGS AT ZEBULON 230, ALL TO 3000 A
Description:	Wake 230 kV, Upgrade CT ratios and relay settings, and line switch. Upgrade CT ratios and relay settings at Zebulon 230 kV.
Supporting Statement:	Multiple contingencies cause the the Wake – Zebulon 230 kV line to overload.
In-Service Year:	2029
Project Name:	BRUNSWICK 2 - TOWN CREEK 230KV LINE, UPGRADE OOS RELAY TO AT LEAST 2000 A, PREFERABLY 3000 A
Description:	Upgrade OOS relay on Brunswick 2 - Town Creek 230 kV line to at least 2000 A, preferably 3000 A.
Supporting Statement:	The Brunswick 2 – Town Creek 230 kV line overloads under contingency.

In-Service Year:	2029
Project Name:	HENDERSON – DVP KERR DAM 115 KV LINE, UPGRADE THE WAVE TRAP, CT RATIO, AND RELAY SETTINGS AT HENDERSON 230 TO AT LEAST 1294 A
Description:	Henderson - DVP Kerr Dam 115 kV Line, uprate terminal equipment at Henderson 230 kV Sub
Supporting Statement:	The Henderson – DVP Kerr Dam 115 kV line overloads for various contingencies.
In-Service Year:	2030
Project Name:	BRUNSWICK 1 - DELCO 230 KV EAST LINE (BRUNSWICK 1 - SOUTHPORT TAP), UPGRADE SWITCH; REBUILD BRUNSWICK 1-SOUTHPORT TAP SECTION
Description:	Rebuild the Brunswick 1 - Southport Tap section (0.09 miles) of Brunswick 1 - Delco 230 kV East transmission line with 6-1590 MCM ACSR 212°F conductor.
Supporting Statement:	Various contingencies cause the Brunswick 1 - Southport Tap section of Brunswick 1 - Delco 230 kV East line to overload.
In-Service Year:	2031
Project Name:	LEE - MILBURNIE 230 KV TRANSMISSION LINE, REBUILD
Description:	Rebuild the entire Lee - Milburnie 230 kV transmission line with 954 MCM HS285 ACSS/TW conductor (40.19 miles) and upgrade terminal equipment.
Supporting Statement:	Various generator interconnection studies have shown the need to upgrade this line. This upgrade is needed to enable generation consistent with the approved IRP.

In-Service
Year: 2033

Project Name: **HOLLY RIDGE NORTH 115 KV SWITCHING STATION, CONSTRUCT**

Description: Construct a new 115 kV switching station northeast of Holly Ridge, NC where the Castle Hayne - Folkstone 115 kV and Folkstone - Jacksonville City 115 kV transmission 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 transmission line.

In-Service
Year: 2036

Project Name: **DURHAM - RTP 230 KV TRANSMISSION LINE (DURHAM - BRIER CREEK), REBUILD**

Description: Rebuild 4.6 miles (Durham - Brier Creek) of the Durham - RTP 230 kV transmission line with 6-1590 MCM ACSR 212°F conductor. This project is listed as conceptual in the local transmission plan.

Supporting
Statement: This upgrade is needed to serve a new industrial customer load.

In-Service
Year: 2036

Project Name: **FALLS - FRANKLINTON (FRANKLINTON - FRANKLINTON NOVO 115 KV FEEDER), CONSTRUCT**

Description: Construct new Franklinton - Franklinton Novo 115 kV Feeder line. This project is 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 transmission line.

In-Service
Year: 2036

Project Name: **ROCKY MOUNT - WILSON 115 KV TRANSMISSION LINE, UPGRADE TERMINAL
EQUIPMENT**

Description: Upgrade terminal equipment at both ends of the Rocky Mt - Wilson 115 kV
transmission line. This project is listed as conceptual in the local transmission plan.

Supporting
Statement: Various contingencies cause the Wilson - Elm City Solar Tap section of the Rocky -
Mount Wilson 115 kV transmission line to overload.

Preliminary

In-Service
Year: 2027

Project Name: **VANDERBILT -- WEST ASHEVILLE 115 KV LINE, 115 KV CB AND SWITCHES, UPGRADE**

Description: Replace the following equipment at Vanderbilt 115kV Substation: 1-115kV Breaker, 2 sets of 115kV disconnects, and 1-115kV switch. Also uprate CT ratios at Vanderbilt and West Asheville substations.

Supporting
Statement: Outage of the Craggy-West Asheville 115kV Line can cause the Vanderbilt-West Asheville 115kV Line to overload.

Preliminary

In-Service
Year: 2027

Project Name: **CANE RUN SW - LAKE DREAMLAND 138 KV TRANSMISSION LINE 1**

Description: Increase the maximum operating temperature of 2.04 miles of bundled 795 ACSR 138 kV conductor to 212°F from Cane Run Switching to the new Lake Dreamland 138 kV station. Replace all terminal equipment at Cane Run Switch associated with this line.

Supporting
Statement: The Cane Run - Lake Dreamland (3801) 138 kV transmission line overloads under contingency.

In-Service
Year: 2027

Project Name: **CANE RUN SW - LAKE DREAMLAND 138 KV TRANSMISSION LINE 2**

Description: Increase the maximum operating temperature of 2.04 miles of bundled 795 ACSR 138 kV conductor to 212°F from Cane Run Switching to the new Lake Dreamland 138 kV station. Replace all terminal equipment at Cane Run Switching associated with this line.

Supporting
Statement: The Cane Run - Lake Dreamland (3808) 138 kV transmission line overloads under contingency.

In-Service
Year: 2027

Project Name: **PINEVILLE SW - ARTEMUS 161 KV TERMINAL EQUIPMENT, REPLACE**

Description: Replace the switches at Pineville Switching associated with Pineville Sw-Artemus 161kV line.

Supporting
Statement: The Pineville SW - Artemus 161 kV transmission line overloads under contingency.

In-Service
Year: 2028

Project Name: **MIDDLETOWN 138 KV TERMINAL EQUIPMENT, REPLACE**

Description: Replace nine pieces of station conductor with equipment rated 1320 amps SE or greater at Middletown 138kV.

Supporting
Statement: The Middletown 138 kV bus overloads under contingency.

In-Service
Year: 2028

Project Name: **MILL CREEK - CANE RUN TP 345 KV TRANSMISSION LINE. REPLACE**

Description: Replace 0.38 miles of transmission line with bundled 954 ACSR and increase the maximum operating temperature of 10.23 miles of bundled 954 ACSR to 205F in the Mill Creek to Cane Run Tap 345 kV transmission line.

Supporting
Statement: New generation causes the Mill Creek - Cane Run Tap 345 kV transmission line to become overloaded.

In-Service
Year: 2030

Project Name: **MIDDLETOWN - MT JT T1 138 KV TRANSMISSION LINE, REPLACE**

Description: Replace 1.52 miles of transmission line with 2-954 MCM 45X7 ACSR in the Middletown - MT JT T1 138 kV transmission line and six pieces of station conductor at Middletown.

Supporting
Statement: The Middletown - MT JT T1 138 kV transmission line overloads under contingency.

In-Service
Year: 2031

Project Name: **BROWN N - TYRONE 138 KV TRANSMISSION LINE, REPLACE**

Description: Replace 20.12 miles of transmission line with 556.5 ACSS or better in the Brown North to Tyrone 138 kV transmission line.

Supporting
Statement: The Brown N - Tyrone 138 kV transmission line overloads in the base case.

In-Service
Year: 2032

Project Name: **BROWN PLANT - FAWKES 138 KV TRANSMISSION LINE**

Description: Replace 21.3 miles of transmission line and two station conductors with 556.5 ACSS or better in the Brown Plant to Fawkes 138 kV transmission line.

Supporting
Statement: The Brown Plant - Fawkes 138 kV transmission line overloads under contingency.

In-Service
Year: 2034

Project Name: **CANE RUN SWITCH - CANE RUN CT 138 KV TERMINAL EQUIPMENT, REPLACE**

Description: Replace Line Riser at Cane Run Switch associated with the Cane Run Switch to Cane Run CT/NGCC 138 kV circuit 22.

Supporting
Statement: The Cane Run Sw - Cane Run CT 138 kV transmission line overloads under contingency.

In-Service
Year: 2035

Project Name: **GREEN RIVER 161/138 KV TRANSFORMER, REPLACE**

Description: Replace 138 kV bushing CT on the Green River T03 161/138 kV transformer to meet or exceed the transformer limit.

Supporting
Statement: The Green River T03 161/138 kV transformer overloads under contingency.

In-Service
Year: 2027

Project Name: **GTC: ADAMSVILLE - BUZZARD ROOST 230 KV REBUILD**

Description: Rebuild about 5 miles of the Adamsville - Buzzard Roost 230 kV line with 200°C 1351 ACSS Martin.

Supporting
Statement: The Adamsville - Buzzard Roost 230kV line overloads under contingency.

In-Service
Year: 2027

Project Name: **GTC: DOUGLASVILLE - VILLA RICA 230 KV REBUILD**

Description: Rebuild the 2.5 mile section of the Villa Rica - Douglasville 230 kV line with bundled 200°C 1351 ACSS Martin conductor.

Supporting
Statement: The Villa Rica - Douglasville 230 kV line overloads under contingency.

In-Service
Year: 2027

Project Name: **GTC: DOYLE - WINDER PRIMARY 230 KV LINE JUMPER REPLACEMENT**

Description: Replace the limiting AAC 1033 jumper with AAC 1590 at Doyle on the Doyle - Winder Primary 230 kV 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 230 kV line between HWY 112 and East Moultrie substations with 160°C 1351 ACSS conductor.

Supporting
Statement: This project addresses thermal overloads on the Daisy - West Valdosta 230 kV and Mitchell - Raccoon Creek 230 kV lines under contingency.

In-Service
Year: 2027

Project Name: **GTC: EAST WALTON 500/230 KV PROJECT**

Description: GTC:

- Construct the East Walton 500/230 kV substation.
- Construct the Bostwick 230 kV switching station.
- Construct the East Walton - Rockville 500 kV line (3 - 100°C 1113 ACSR).
- Construct the Bethabara - East Walton 230 kV line (170°C 1351.5 ACSS).
- Construct the Bostwick - East Walton 230 kV line (170°C 1351.5 ACSS).
- Construct the East Walton - Jack's Creek 230 kV line (170°C 1351.5 ACSS).
- At Bethabara, terminate the East Walton 230 kV line.
- Loop the East Social Circle - East Watkinsville 230 kV line into Bostwick.
- Replace line trap at East Watkinsville on the Bostwick 230 kV line.

GPC:

- Construct the Rockville 500 kV switching station.
- Loop the Scherer - Warthen 500 kV line into Rockville.
- Loop the Doyle - LG&E Monroe 230 kV line into Jack's Creek.

MEAG: - Construct the Jack's Creek 230 kV switching station.

Supporting
Statement: Contingencies of 230 kV transmission lines in Central area causes several 230 kV transmission lines to overload. The project also addresses increasing loads in Northeast Georgia and the increase of South to North flow from Central region into the Northeast due to solar generation located in South GA.

In-Service
Year: 2027

Project Name: **GTC: GARRETT RD - V. RICA 230 KV LINE RECONDUCTOR**

Description: Reconductor the section from East Villa Rica Switching station to Garrett Rd with 160°C 1351 ACSS on 11.5 miles of the Garrett Road - Villa Rica 230 kV line. Additionally, the 2.5 mile section from East Villa Rica Switching Station to Villa Rica will be rebuilt with bundled 200°C 1351 ACSS Martin.

Supporting
Statement: The Garrett Road - Villa Rica 230 kV line overloads under contingency.

In-Service
Year: 2027

Project Name: **GTC: GLENWOOD SPRINGS - LICK CREEK 115 KV REBUILD**

Description: Rebuild approximately 7.5 miles of the Glendwood Springs - Lick Creek 115 kV line section with 100°C 795 ACSR conductor.

Supporting
Statement: The Glenwood Springs - Lick Creek 115 kV line conductor and structures are at the end of life and have recent maintenance issues.

In-Service
Year: 2027

Project Name: **GTC: HICKORY LEVEL - VILLA RICA 230 KV LINE RECONDUCTOR**

Description: Reconductor 8.6 miles of the Hickory Level - Villa Rica 230 kV line with 160°C 1351 ACSS Martin. Replace limiting elements along the line.

Supporting
Statement: The Hickory Level - Villa Rica 230 kV line overloads under contingency.

In-Service
Year: 2027

Project Name: **GTC: JACKSON 115 KV BUS AND JUMPER UPGRADES**

Description: Upgrade limiting elements at Jackson 115 kV substation to be a higher rating.

Supporting
Statement: Limiting elements exceed their thermal rating under contingency.

In-Service
Year: 2027

Project Name: **GTC: MORNING HORNET 2ND 230/115 KV BANK & STANTON SP 115 KV**

Description: Add a second 230/115 kV auto transformer at Morning Hornet substation. Also, build a new 115 kV line from Morning Hornet to Thumbs Up, approximately 2.4 miles, with 100°C 1351 ACSR conductor.

Supporting
Statement: The East Social Circle - Stanton Springs 115 kV and Morning Hornet - Thumbs Up 115 kV lines overload under contingency.

In-Service Year:	2027
Project Name:	GTC: REPLACE 230/115 KV AUTO TRANSFORMERS AT SOUTH HAZLEHURST
Description:	Replace 230/115 kV auto transformers at South Hazlehurst with higher rating transformers.
Supporting Statement:	The 230/115 kV auto transformers at South Hazlehurst overloads under contingency.
In-Service Year:	2027
Project Name:	GTC: RIDDLEVILLE 115 KV BUS REPLACEMENT
Description:	Replace the main 115 kV bus at the substation with higher rating.
Supporting Statement:	The Sandersville #1 - Wadley 115 kV line overloads under contingency.
In-Service Year:	2027
Project Name:	GTC: SKC 115 KV BUS AND JUMPER REPLACEMENT
Description:	Upgrade limiting elements at the SKC substation to a higher rating.
Supporting Statement:	The Covington #2 - SKC 115 kV line exceeds its thermal rating under contingency.
In-Service Year:	2027
Project Name:	GTC: SWITCH WAY - THORNTON ROAD 230 KV LINE REBUILD
Description:	Rebuild 1.3 miles of Switch Way - Thornton Road 230 kV line with minimum rating of 160°C 1033 ACSS conductor.
Supporting Statement:	The Switch Way - Thornton Road 230 kV 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 500 kV, 230 kV, and 115 kV yards. Add a redundant relay scheme at Fortson.

Supporting
Statement: Several 115 kV 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 115 KV RECONDUCTOR**

Description: Reconductor approximately 10 miles of the Ray Place - Warrenton Primary 115 kV line with 170°C ACSS conductor. Upgrade limiting element at substation along the line.

Supporting
Statement: Ray Place Rd - Warrenton 115 kV line overloads under contingency.

In-Service
Year: 2027

Project Name: **PS: GASKIN - SOUTHPORT 115 KV TRANSMISSION LINE, CONSTRUCT**

Description: Construct ~13.0 miles of new 115 kV transmission line from Gaskin switching station to Southport substation with 795 ACSR/AW at 100°C.

Supporting
Statement: Improve the reliability of Gulf Coast Electric's substations by providing a looped service feed.

In-Service
Year: 2027

Project Name: **SOCO: ANNISTON - BYNUM 115 KV TL 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: **SOCO: ATHENA - EAST WATKINSVILLE 115 KV REBUILD**

Description: Rebuild approximately 8.47 miles of the Athena - East Watkinsville 115 kV line with 100°C ACSR 1033 conductor.

Supporting
Statement: The Athena - East Watkinsville 115 kV line overloads under contingency.

In-Service
Year: 2027

Project Name: **SOCO: AUTAUGAVILLE - EAST PELHAM NEW 230 KV TRANSMISSION LINE**

Description: Construct ~75 miles new 230 kV transmission line bundled 795 ACSS at 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: **SOCO: BESSEMER – SOUTH BESSEMER 115 KV TL RECONDUCTOR - PHASE 1**

Description: Reconductor ~2 miles of 115 kV transmission line from South Bessemer TS to Bessemer TS from 397 ACSR at 100°C to 795 ACSS 26/7 at 200°C.

Supporting
Statement: The Bessemer - South Bessemer 115 kV transmission line overloads under contingency.

In-Service
Year: 2027

Project Name: **SOCO: BIG SHANTY 500 KV BREAKER**

Description: Install a 500 kV breaker at Big Shanty substation.

Supporting
Statement: The 500/230 kV transformer at Big Shanty overloads under a contingency.

In-Service
Year: 2027

Project Name: **SOCO: BROADWAY - ECHECONNEE 115 KV LINE RECONDUCTOR**

Description: Reconductor Griffin Rd to Echeconnee segment (approximately 4.9 miles) of the Broadway - Echeconnee 115 kV line with 210°C 636 ACCR conductor. Replace the limiting jumper with 1590 AAC.

Supporting
Statement: The Broadway - Echeconnee 115 kV line overloads under contingency.

In-Service
Year: 2027

Project Name: **SOCO: DOYLE - LG&E MONROE 230 KV - JACKS CREEK LOOP IN**

Description: Loop in and out the new Jack's Creek 230 kV switching station into the Doyle - LG&E Monroe 230 kV line.

Supporting
Statement: Contingencies of 230 kV transmission lines in the area causes several 230 kV lines to overload.

In-Service
Year: 2027

Project Name: **SOCO: EAST POINT - UNION CITY 230 KV FIBER INSTALLATION**

Description: Install Fiber on the East Point - Union City 230 kV (Black & White) lines.

Supporting
Statement: This project adds protection to the transmission system in the area to increase coordination.

In-Service
Year: 2027

Project Name: **SOCO: ELLENWOOD AREA NETWORK IMPROVEMENTS**

Description: Rebuild the Austin Drive - Morrow 115 kV line with 200°C 1351 ACSS Martin and upgrade limiting elements at the Austin Drive substation.

Supporting
Statement: The Austin Drive - Morrow 115 kV line overloads under contingency.

In-Service
Year: 2027

Project Name: **SOCO: ENTERPRISE TS – PINCKARD #2 115 KV TL RECONDUCTOR**

Description: Reconductor ~7.5 miles of 266 ACSR at 100°C of the Enterprise to Daleville DS to 795 ACSR 26/7 at 100°C

Supporting
Statement: The Enterprise - Pinckard #2 115 kV transmission line overloads under contingency.

In-Service
Year: 2027

Project Name: **SOCO: GRADY 115 KV BREAKER REPLACEMENTS**

Description: The breaker duty margin will become negative for two 115 kV breakers at Grady. Replace them with 115 kV higher rated breakers.

Supporting
Statement: This project is needed to increase breaker duty margins at Grady substation to comply with NERC TPL-001-05, Section 2.3.

In-Service
Year: 2027

Project Name: **SOCO: GRID: ARKWRIGHT - LLOYD SHOALS 115 KV LINE REBUILD**

Description: Rebuild the Arkwright - Lloyd Shoals 115 kV line with 100°C 795 ACSR conductor.

Supporting
Statement: The Arkwright - Lloyd Shoals 115 kV line overloads under contingency.

In-Service
Year: 2027

Project Name: **SOCO: GULLATT ROAD TRANSMISSION IMPROVEMENTS**

Description: Rebuild the Morrow - Yates Common 115 kV line from Line Creek to the new Gullatt Road station. Rebuild the Line Creek - Fairburn #2 115 kV line from Line Creek to the new Gullatt Road station. Remove the Owens Corning Tap Connection on the Morrow - Yates Common 115 kV line and rebuild the line from North Coweta to Str 1. Build new line section from Str 1 to the new Gullatt Road station. All rebuilds will be done with 200°C 1351 ACSS Martin.

Supporting
Statement: This project addresses multiple 115 kV overloads.

In-Service
Year: 2027

Project Name: **SOCO: HILL VIEW & GRASSY HOLLOW 230 KV SUB**

Description: Build two 230 kV switching stations (Hill View and Grassy Hollow) looping into the Cartersville - McGrau Ford 230 kV line. Build two new 230 kV lines: Cass Pine - Great Valley and Great Valley - Grassy Hollow with 200°C 1351 ACSS Martin.

Supporting
Statement: The transmission network upgrades increases reliability and supports economic development in the area.

In-Service
Year: 2027

Project Name: **SOCO: HILLS BRIDGE 230 KV STATCOM ADDITION**

Description: Install a STATCOM connected to the 230 kV bus at Hills Bridge substation.

Supporting
Statement: Fast acting reactive power compensation is needed to enhance voltage stability and power quality in the area.

In-Service
Year: 2027

Project Name: **SOCO: JESUP - OFFERMAN 115 KV REBUILD**

Description: Rebuild approximately 20 miles of the Jesup - Offerman 115 kV line with 100°C 795 ACSR Drake conductor.

Supporting
Statement: The Jesup - Offerman 115 kV transmission line overloads under contingency.

In-Service
Year: 2027

Project Name: **SOCO: JONESBORO - MORROW 115 KV RELAY PROTECTION UPGRADE**

Description: Upgrade the Jonesboro - Morrow 115 kV line relay protection schemes to accelerate clearing time.

Supporting
Statement: This project will need to be completed by the need date to comply with NERC TPL-001-05.

In-Service
Year: 2027

Project Name: **SOCO: LAWRENCEVILLE - WINDER PRIMARY 230 KV LINE REBUILD**

Description: Rebuild the entire Lawrenceville - Winder Primary 230 kV line, approximately 15.4 miles, using 200°C 1351 ACSS Martin conductor.

Supporting
Statement: The Lawrenceville - Winder Primary 230 kV line will overload under contingency.

In-Service
Year: 2027

Project Name: **SOCO: LINE CREEK 115 KV BREAKER REPLACEMENTS**

Description: At Line Creek, the breaker duty margin will become negative starting on 06/01/2027 for the two 115 kV breakers. Replace them with 115 kV higher rated breakers.

Supporting
Statement: This project is needed to increase breaker duty margins at Line Creek substation to comply with NERC TPL-001-05, Section 2.3.

In-Service
Year: 2027

Project Name: **SOCO: MERIDIAN HWY 80 SOUTH 230 KV SWITCHING STATION**

Description: Construct new 230 kV Switching Station in the Meridian Area.

Supporting
Statement: This project addresses multiple thermal overloads that occur under contingency and supports economic development in the area.

In-Service
Year: 2027

Project Name: **SOCO: MERIDIAN NORTHEAST TO LAUDERDALE EAST 230 KV REBUILD**

Description: Rebuild the 6.47 mile, Meridian Northeast - Lauderdale East 230 kV transmission line with 1351 ACSS at 200°C.

Supporting
Statement: Line overloads under contingency.

In-Service
Year: 2027

Project Name: **SOCO: MERIDIAN SUBSTATION 230 KV TL TO LOOP-IN**

Description: Construct ~7.6 mile loop in with 1351 ACSS at 200°C to new 230 kV substation.

Supporting
Statement: This project addresses multiple thermal overloads that occur under contingency and supports economic development in the area.

In-Service
Year: 2027

Project Name: **SOCO: MORROW - YATES COMMON 115 KV LINE REBUILD**

Description: Rebuild a section (approximately 5.1 miles) of the Morrow - Yates Common 115 kV line with 200°C 1351.0 ACSS Martin.

Supporting
Statement: Line sections on the Morrow - Yates 115 kV line overload under contingency.

In-Service
Year: 2027

Project Name: **SOCO: OLIVER DAM & BULL CREEK 115 KV PROTECTION RELAY UPGRADE**

Description: At Bull Creek and Oliver Dam 115 kV substations, replace the protection on the Fortson 115 kV line with standard SEL - 421 / 311C1 DCUB panel, capable of providing 7 cycle clearing time or less. Install line traps and associated carrier equipment.

Supporting
Statement: This project upgrades relay protections at Bull Creek and Oliver Dam substations to improve reliability in the system.

In-Service
Year: 2027

Project Name: **SOCO: POSSUM BRANCH - YATES COMMON 115KV REBUILD (YATES TO CLEM)**

Description: Rebuild approximately 11 mile section of the Possum Branch - Yates 115 kV line with 200°C 1334 T13 ACCR Martin or 200°C 1351.0 ACSS conductor and replace limiting elements along the line with a higher rating.

Supporting
Statement: The Possum Branch - Yates 115 kV line overloads under contingency.

In-Service
Year: 2027

Project Name: **SOCO: REMOVE LIMITING ELEMENTS ON 115 KV AT LLOYD SHOALS**

Description: Upgrade limiting elements at Lloyd Shoals 115 kV substation to be a higher rating.

Supporting
Statement: Limiting elements exceed their thermal rating under contingency.

In-Service
Year: 2027

Project Name: **SOCO: SANDERSVILLE #1 - WADLEY PRIMARY 115 KV REBUILD**

Description: Rebuild approximately 24.3 miles of the Sandersville #1 - Wadley Primary 115 kV line with 100°C 1351 ACSR Drake conductor. Replace limiting elements in substations along the line.

Supporting
Statement: The Sandersville # 1 - Wadley Primary 115 kV line overloads under contingency.

In-Service
Year: 2027

Project Name: **SOCO: SAV: GOSHEN (SAV) - KRAFT 115 KV LINE PARTIAL REBUILD - PHASE 1**

Description: Rebuild a portion (approximately 3.48 miles) of Goshen - Kraft 115 kV line from 100°C 795 ACSR Drake to 200°C 1351 ACSS Martin.

Supporting
Statement: The Goshen - Kraft 115 kV line overloads under contingency.

In-Service
Year: 2027

Project Name: **SOCO: SHUGART FARMS AREA IMPROVEMENT**

Description: Rebuild the Line Creek 230 kV substation. Reconnect existing 230 kV lines and build two short lines from Line Creek to Shugart Farms (0.3 miles each) with 100°C 1351 ACSR Martin conductor.

Supporting
Statement: The transmission network upgrades increase reliability and supports economic development in the area.

In-Service
Year: 2027

Project Name: **SOCO: SOUTH MACON 115 KV BUSES 1 & 2 REPLACEMENT**

Description: Replace the 115 kV buses 1 and 2 at South Macon with (2) 1590 AAC. Replace the limiting elements on the station with a higher rating.

Supporting
Statement: The 230/115 kV auto transformers at South Macon overload under contingency.

In-Service
Year: 2027

Project Name: **SOCO: STANTON SP - THUMBS UP 115 KV REBUILD**

Description: Rebuild a portion of Stanton Sp - Thumbs Up 115 kV line with 100°C 1351 ACSR.

Supporting
Statement: The Stanton Sp - Thumbs up 115 kV line overloads under contingency.

In-Service
Year: 2027

Project Name: **SOCO: SUMMER LAKE - VILLA RICA 230 KV REBUILD**

Description: Rebuild the 2.5 miles portion of the Summer Lake - Villa Rica 230 kV line with bundled 200°C 1351 ACSS Martin.

Supporting
Statement: The Summer Lake - Villa Rica 230 kV line overloads under contingency.

In-Service
Year: 2027

Project Name: **SOCO: THURLOW DAM – UNION SPRINGS 115 KV TL REBUILD**

Description: Rebuild approximately 31.5 miles of 397 ACSR at 75°C from Thurlow Dam to Union Springs to 795 ACSS @ 200°C.

Supporting
Statement: The Thurlow Dam - Union Springs 115 kV transmission line overloads under contingency.

In-Service
Year: 2027

Project Name: **SOCO: TOMOCHICHI 500/230 KV AREA SOLUTION**

Description: Build the new Tomochichi 500/230 kV switching station splitting the Ohara - Scherer 500 kV line. Build two new 230 kV lines from the new Tomochichi substation to the new Towaliga River 230 kV substation using 200°C 1351 ACSS Martin conductor.

Supporting
Statement: The transmission network upgrades increase reliability and supports economic development in the area.

In-Service
Year: 2027

Project Name: **SOCO: TOMOCHICHI SUBSTATION STATCOM ADDITIONS**

Description: Install a STATCOM connected to the 230 kV at Tomochichi substation.

Supporting
Statement: Fast acting reactive power compensation is needed to enhance voltage stability and power quality in the area.

In-Service
Year: 2028

Project Name: **GTC: BARNEYVILLE - EAST MOULTRIE 115KV NEW LINE**

Description: Build approximately 20 miles of a new 115 kV line from Barneyville to East Moultrie with 200°C 1351 ACSS .

Supporting
Statement: The Barneyville - Pine Grove Primary 115 kV line and Barneyville - Douglas 115 kV line overload under contingency.

In-Service
Year: 2028

Project Name: **GTC: BONAIRE PRIMARY 500/230 KV XFMR REPLACEMENT & RELAY MODIFICATION**

Description: Replace 500/230 kV, auto transformer C 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.

In-Service
Year: 2028

Project Name: **GTC: BOSTWICK - EAST SOCIAL CIRCLE 230 KV RECONDUCTOR**

Description: Reconductor approximately 10.8 miles of the East Social Circle - East Watkinsville 230 kV line from 1033 ACSR Curlew conductor to 1033 ACCS 200°C conductor.

Supporting
Statement: The Bostwick - East Social Circle 230 kV line overloads under contingency.

In-Service
Year: 2028

Project Name: **GTC: DYER ROAD - SOUTH COWETA 115 KV REBUILD PHASE 1**

Description: Rebuild the 12.6 miles section of the Dyer Road - South Coweta 115 kV line with 200°C 1351 ACSS Martin.

Supporting
Statement: The Dyer Road - South Coweta 115 kV line overloads under contingency.

In-Service
Year: 2028

Project Name: **GTC: MCDONOUGH - SOUTH GRIFFIN 115 KV REBUILD - PHASE 1**

Description: Rebuild the McDonough - South Griffin 115 kV line with 200°C 1351 ACSS Martin. Replace limiting switches and jumpers with higher rated equipment.

Supporting
Statement: The McDonough - South Griffin 115 kV line overloads under contingency.

In-Service
Year: 2028

Project Name: **GTC: NEW HAMPTON 230/115 KV SUB**

Description: Construct a new 230/115 kV substation next to the existing Hampton 115 kV substation. The new substation will serve the Henderson Farms load as well as the existing Hampton 115 kV sub.

Supporting
Statement: The project will address multiple thermal overloads that occur 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 needed due to ongoing maintenance issues.

In-Service
Year: 2028

Project Name: **GTC: REMOVE LIMITING ELEMENTS ON SOUTH COWETA 230/115 KV BANK A**

Description: Replace limiting elements associated with South Coweta 230/115 kV auto transformer with higher rating.

Supporting
Statement: South Coweta 230/115 kV auto transformer overloads under contingency.

In-Service
Year: 2028

Project Name: **GTC: RUM CREEK 500 KV NEW SWITCHING STATION**

Description: Construct the Rum Creek 500 kV breaker and half switching station. Loop in the existing Bonaire Primary - Scherer and Ohara - Scherer 500 kV lines. Terminate the new Big Smarr - Rum Creek 500 kV line. Construct the new line using 100°C (3) 1113 ACSR Bluejay conductor.

Supporting
Statement: The Bonaire Primary 500/230 kV Bank C and Bonaire Primary - Dorsett 230 kV line overload under contingency.

In-Service
Year: 2028

Project Name: **MEAG: BRUMBLEY CREEK - SOUTH BAINBRIDGE 115 KV REBUILD**

Description: Rebuild approximately 2.1 miles of the South Bainbridge - Thomasville 115 kV line with 200°C 1351 ACSS conductor.

Supporting
Statement: The South Bainbridge - Thomasville 115 kV line overloads under contingency.

In-Service
Year: 2028

Project Name: **MEAG: NEW SOUTH GRIFFIN 230/115 KV SUBSTATION**

Description: Build a new 230/115 kV substation and relocate all lines except for the South Coweta and Griffin #1 115 kV lines from the existing South Griffin substation. Terminate the newly converted Hampton 230 kV line at South Griffin.

Supporting
Statement: The project will address multiple thermal overloads that occur under contingency.

In-Service
Year: 2028

Project Name: **MEAG: THOMASVILLE 230/115 KV AUTOBANK REPLACEMENT**

Description: Replace the 230/115 kV auto transformer #4 at Thomasville substation.

Supporting
Statement: The 230/115 kV auto transformer #4 at Thomasville substation overloads under contingency.

In-Service Year:	2028
Project Name:	PS: BASSETT CREEK - TENSAW 230 KV TRANSMISSION LINE (LOWMAN 230 KV), LOOP-IN
Description:	Loop in existing Bassett Creek - Tensaw 230 kV transmission line into Lowman 230 kV station as new tie lines between PS and SOCO. Requires the construction of ~7 miles of new 230 kV transmission line.
Supporting Statement:	Prevents thermal overloading under contingency after addition of new generation at Lowman.
In-Service Year:	2028
Project Name:	SOCO: ACIPCO TS – BOYLES 230 KV TL NEW TRANSMISSION LINE
Description:	Construct ~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:	SOCO: ADVANCED POWER FLOW CONTROLLERS AT EAST VILLA RICA SWITCHING STATION
Description:	Install Advanced Power Flow Controllers at the new East Villa Rica Switching Station on the Douglasville - Villa Rica 230 kV and Summer Lake - Villa Rica 230 kV lines.
Supporting Statement:	The project addresses multiple thermal overloads that occur under contingency.
In-Service Year:	2028
Project Name:	SOCO: ANNISTON - HAMMOND 230 KV TL REACTOR
Description:	Install a 3% reactor at Hammond along the Anniston - Hammond 230 kV TL.
Supporting Statement:	The Anniston - Hammond 230 kV transmission line overloads under contingency.

In-Service
Year: 2028

Project Name: **SOCO: BARRY - ELLICOTT 230 KV SERIES REACTORS**

Description: New Series Reactors on the Barry - Ellicott 230 kV TL needed to address short circuit constraints and also create short circuit margin. Potential Tap sizes of 0.5% or 1.0% Reactors

Supporting
Statement: The project addresses short circuit constraints.

In-Service
Year: 2028

Project Name: **SOCO: BARTLETTS FERRY - BACKWATER TAP 115 KV REBUILD**

Description: Rebuild the 1.27 miles of the Bartlett's Ferry - Backwater Tap section of the Bartletts Ferry - West Point (APC) 115 kV line with 200°C 1351 AAC conductor. Replace switch with higher rated switch.

Supporting
Statement: A multiple contingency event causes the Bartletts Ferry - West Point (APC) 115 kV line to overload.

In-Service
Year: 2028

Project Name: **SOCO: BARTLETTS FERRY - WEST POINT 115 KV TL REBUILD**

Description: Rebuild ~2.42 miles of 115 kV TL from Back Water Tap – Bartletts Ferry Dam from 636 26/7 ACSR 100°C to 1351 54/19 ACSS 200°C.

Supporting
Statement: The Bartletts Ferry - West Point Dam 115 kV TL overloads under contingency.

In-Service
Year: 2028

Project Name: **SOCO: BOWEN SERIES REACTOR INSTALLATION**

Description: Install new series reactors on the low side of the 500/230 kV auto transformer.

Supporting
Statement: This project supports new generation interconnection in the area.

In-Service
Year: 2028

Project Name: **SOCO: BREMEN - CROOKED CREEK 115 KV TL RECONDUCTOR**

Description: Reconductor ~29.5 miles of 397 30/7 ACSR 100°C to 1351 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: **SOCO: CARTERSVILLE - EMERSON 230 KV LINE REBUILD**

Description: Rebuild 5.3 miles of the Cartersville to Emerson 230 kV line with (2) 200°C 1351 ACSS Martin and replace limiting line elements.

Supporting
Statement: The Cartersville - Emerson 230 kV line overloads under contingency.

In-Service
Year: 2028

Project Name: **SOCO: CENTRE - HAMMOND 115 KV TL REACTOR**

Description: Install a 2% reactor at Hammond along the Centre - Hammond 115 kV TL.

Supporting
Statement: The Centre - Hammond 115 kV transmission line overloads under contingency.

In-Service
Year: 2028

Project Name: **SOCO: CONSTRUCT NEW 230 KV LINE FROM LAUDERDALE WEST - PLANT SWEATT**

Description: Construct new 10 mile, Lauderdale West - Plant Sweatt 230 kV line with 1351 ACSS at 200°C.

Supporting
Statement: Alleviates loading on the Lauderdale West to Enterprise 230 kV TL.

In-Service Year:	2028
Project Name:	SOCO: CORN CRIB - LAGRANGE 115 KV RECONDUCTOR
Description:	Reconductor a section of the Corn Crib - LaGrange 115 kV line with 397 ACSS 200°C conductor. Replace limiting elements at Corn Crib.
Supporting Statement:	A multiple contingency event causes a section of the Corn Crib - LaGrange 115 kV line to overload.
In-Service Year:	2028
Project Name:	SOCO: DEER CREEK 500/230 KV SUBSTATION
Description:	Build a 500/230 kV station splitting the Bonaire Primary - Scherer 500 kV line. Install two 500/230 kV auto transformers and build 2 bundled 200°C 1351 ACSS Martin 230 kV lines from Deer Creek to Little Deer Creek substations.
Supporting Statement:	This project provides operational and maintenance flexibility, which increases reliability and supports economic development in the area.
In-Service Year:	2028
Project Name:	SOCO: DYER ROAD - EAST ROANOKE 115 KV REBUILD
Description:	Rebuild 20.7 miles from Dyer Road to Wansley tap on the Dyer Road - East Roanoke (APC) 115 kV line with advanced Everglades C7 conductor.
Supporting Statement:	Dyer Road - East Roanoke (APC) 115 kV line overloads under contingency.
In-Service Year:	2028
Project Name:	SOCO: EAST VILLA RICA 230 KV SWITCHING STATION
Description:	Build a 230 kV substation along the right of way of the (3) 230 kV lines switching station east of Villa Rica.
Supporting Statement:	The transmission network upgrades increase reliability and supports economic development in the area.

In-Service
Year: 2028

Project Name: **SOCO: EUTAW - GREENE COUNTY 115 KV REBUILD**

Description: Rebuild ~28 miles of 115 kV TL from Eutaw TS to Greene County SP from 397 ACSR 26/7 at 100°C to 795 ACSS 26/7 at 200°C.

Supporting
Statement: The Eutaw - Greene County 115 kV transmission line overloads under contingency.

In-Service
Year: 2028

Project Name: **SOCO: FIRST AVENUE - NORTH COLUMBUS 115 KV LINE REBUILD**

Description: Rebuild 0.9 mile of the North Columbus - First Avenue 115 kV line with 200°C 1351 ACSS conductor. The First Ave - Goat Rock 115 kV line will be reconducted with 1351 ACSS 200°C due to common structures with North Columbus-First Ave 115 kV lines.

Supporting
Statement: The North Columbus - First Avenue 115 kV line overloads under contingency.

In-Service
Year: 2028

Project Name: **SOCO: FITZGERALD - PITTS 115 KV LINE REBUILD**

Description: Rebuild Pitts to Whittle segment of the Fitzgerald - Pitts 115 kV line with 200°C 1351 ACSS conductor and reconductor the Whittle to HWY 233 segment with 100°C 762 ACSR conductor.

Supporting
Statement: The Fitzgerald - Pitts 115 kV line overloads under contingency.

In-Service
Year: 2028

Project Name: **SOCO: GASTON - BYNUM 230 KV TL UPGRADE**

Description: Upgrade ~38.5 miles of the Gaston - Bynum 230 kV TL from 1033 45/7 ACSR @ 100°C to 1033 45/7 ACSR @ 125°C

Supporting
Statement: The Bynum - Gaston 230 kV transmission line overloads under contingency.

In-Service
Year: 2028

Project Name: SOCO: GORDON 115 KV OVERSTRESSED BREAKER REPLACEMENT

Description: The breaker duty margin will become negative starting on 05/15/2028 for the two 115 kV breakers. Replace them with 115 kV higher rated breakers.

Supporting Statement: This project is needed to increase breaker duty margins at Gordon substation to comply with NERC TPL-001-05, Section 2.3.

In-Service
Year: 2028

Project Name: SOCO: HAMMOND REACTORS

Description: Install a 2% reactor at Hammond on the 115 kV bus for the Hammond - Weiss Dam 115kV line

Supporting Statement: The Anniston (APC) - Hammond 230 kV line overloads under contingency

In-Service
Year: 2028

Project Name: SOCO: HAMPTON AREA 115 TO 230 KV LINE CONVERSIONS

Description: Convert Hampton – Ohara 115 kV and Jonesboro – Ohara 115 kV to create a new Jonesboro – Hampton 230 kV line. Convert Hampton – South Griffin 115 kV to 230 kV operation. Loop in Jonesboro - Ohara 115 kV through Bonanza so it is not radial. Install a new 230/115 kV auto at Jonesboro.

Supporting Statement: The project will address multiple thermal overloads that occur under contingency.

In-Service
Year: 2028

Project Name: SOCO: LINE CREEK TERMINAL EQUIPMENT REPLACEMENT

Description: At Line Creek, upgrade terminal equipment on the Line Creek - Yates 230 kV, Line Creek - Union City 230 kV, and Line Creek - Morrow 230 kV lines with higher rated equipment.

Supporting Statement: Multiple lines at Line Creek overload under contingency.

In-Service Year:	2028
Project Name:	SOCO: LLOYD SHOALS - PORTERDALE PRIMARY 115 KV REBUILD
Description:	Rebuild a portion (approximately 15.8 miles) of the Lloyd Shoals - Porterdale Primary 115 kV line with 200°C 1351 ACSS Martin.
Supporting Statement:	The Lloyd Shoals - Porterdale Primary 115 kV line overloads under contingency.
In-Service Year:	2028
Project Name:	SOCO: MARTIN DAM - CROOKED CREEK #1 115 KV TL
Description:	Upgrade 16 miles of the Martin Dam - Crooked Creek #1 TL from Martin Dam - Dadeville to 397 30/7 ACSR at 125°C
Supporting Statement:	The Martin Dam - Crooked Creek (1) 115 kV transmission line overloads under contingency.
In-Service Year:	2028
Project Name:	SOCO: MARTIN DAM - CROOKED CREEK #2 115 KV TL
Description:	Upgrade 16 miles of the Martin Dam - Crooked Creek #2 TL from Martin Dam - Dadeville to 397 30/7 ACSR at 125°C.
Supporting Statement:	The Martin Dam - Crooked Creek (2) 115 kV transmission line overloads under contingency.
In-Service Year:	2028
Project Name:	SOCO: MCINTOSH 230 KV BREAKER CONTROL RELAY UPGRADES
Description:	Replace existing (20) 230 kV breaker control relays with (20) high speed breaker control relays at McIntosh 230 kV breaker and a half bus.
Supporting Statement:	Protection analysis identified the project modifications are required due to the interconnection of the Proposed Generating Facility.

In-Service
Year: 2028

Project Name: **SOCO: MERIDIAN SUBSTATION 230 KV LINE TO LOOP-IN**

Description: Construct 7.2 mile, 1351 ACSS at 200°C loop in new 230 kV substation.

Supporting
Statement: This project addresses multiple thermal overloads that occur under contingency and supports economic development in the area.

In-Service
Year: 2028

Project Name: **SOCO: MILLER SP 500 KV BREAKER**

Description: Install 500 kV breaker at Miller SP.

Supporting
Statement: This project addresses multiple thermal overloads that occur under contingency. This project provides additional operational and maintenance flexibility, which increases reliability.

In-Service
Year: 2028

Project Name: **SOCO: OHARA 115 KV TARGETED EQUIPMENT REPLACEMENT**

Description: The breaker duty margin will become negative starting on 06/01/2030 for one 115 kV breaker. Replace it with 115 kV higher rated breaker.

Supporting
Statement: This project is needed to increase breaker duty margins at Ohara substation to comply with NERC TPL-001-05, Section 2.3.

In-Service
Year: 2028

Project Name: **SOCO: PITTMAN ROAD - WEST POINT DAM (USA) 115 KV RECONDUCTOR**

Description: Reconductor the Pittman Road - West Point Dam (USA) 115 kV line with 336 ACSS 200°C conductor. Replace AAC 750 jumper at Pittman Road 115 kV with 1590 AAC.

Supporting
Statement: The Pittman Road - West Point Dam (USA) 115 kV line overloads under contingency.

In-Service
Year: 2028

Project Name: **SOCO: PLANT YATES 230 KV BREAKER AND HALF STATION**

Description: Rebuild the Yates 6 & 7 substation to a breaker and a half configuration.

Supporting
Statement: Yates 6 & 7 needs to be rebuilt to facilitate new generation.

In-Service
Year: 2028

Project Name: **SOCO: RAINBOW DRIVE AREA CAPACITOR**

Description: Install a 115 kV capacitor bank at Ellenwood substation.

Supporting
Statement: The Rainbow Drive area experiences voltage issues under a contingency.

In-Service
Year: 2028

Project Name: **SOCO: REMOVE LIMITING ELEMENTS ON BANK A AT MORROW**

Description: Upgrade limiting 115 kV switch at Morrow to a higher rating.

Supporting
Statement: Switch exceeds its thermal rating under contingency.

In-Service
Year: 2028

Project Name: **SOCO: SAV: COLEMAN - DEAN FOREST 115 KV LINE REBUILD**

Description: Rebuild the entire Coleman - Dean Forest 115 kV line, approximately 6.7 miles of 100°C 477 Hawk with 200°C 1351 ACSS Martin. At Chatham County, upgrade jumpers and bus. At Dean Forest, remove limiting elements by upgrading jumpers. Rebuild approximately 1.7 miles of the Coleman – Meldrim line section due to common structures.

Supporting
Statement: The Coleman - Dean Forest 115 kV line overloads under contingency.

In-Service
Year: 2028

Project Name: **SOCO: SAV: GOSHEN (SAV) - MCINTOSH 115 KV LINE REBUILD**

Description: Rebuild the Goshen (Savannah) - Georgia Pacific (Rincon) section, approximately 6.7 miles, of the Goshen (Sav) - McIntosh 115 kV line using 200°C 1351 ACSS conductor.

Supporting
Statement: The Goshen (Sav) - McIntosh 115 kV line overloads under contingency.

In-Service
Year: 2028

Project Name: **SOCO: SAV: RICE HOPE NEW AUTO TRANSFORMER 230/115 KV**

Description: Install a new 230/115 kV auto transformer at Rice Hope and loop in the Crossgate - McIntosh 230 kV line.

Supporting
Statement: This project will address multiple thermal overloads that occur under contingency.

In-Service
Year: 2028

Project Name: **SOCO: THURLOW DAM - PIN OAKS 115 KV TL RECONDUCTOR**

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: **SOCO: UNION CITY - LINE CREEK - YATES 230 KV LINES REBUILD**

Description: Rebuild the entire Union City - Line Creek - Yates 230 kV lines (approximately 23.4 miles) with bundled 200°C 1351 ACSS Martin. Upgrade limiting elements at substations along the line.

Supporting
Statement: The Line Creek - Union City 230 kV and Line Creek - Yates 230 kV lines overload under contingency.

In-Service
Year: 2028

Project Name: **SOCO: VILLA RICA UPGRADES**

Description: Add a new 500/230 kV auto transformer at Villa Rica and loop in and out the Bowen - Union City 500 kV line into Villa Rica. Reconfigure the 230 kV side of the substation.

Supporting
Statement: The transmission network upgrades increase reliability and supports economic development in the area.

In-Service
Year: 2028

Project Name: **SOCO: WEST MCINTOSH REPLACEMENT OF 230 KV LOW SIDE BREAKERS**

Description: Replace (2) 230 kV LS breakers at West McIntosh with new with higher rated breakers.

Supporting
Statement: Protection analysis identified the project modifications are required due to the interconnection of the proposed generating facility.

In-Service
Year: 2029

Project Name: **GTC: BARNESVILLE - SOUTH GRIFFIN 230 KV PROJECT**

Description: Construct a new 19 mile, 230 kV line from South Griffin substation - Barnesville Primary substation with 200°C 1351 ACSS conductor.

Supporting
Statement: The Barnesville - South Griffin 115 kV line overloads under contingency.

In-Service
Year: 2029

Project Name: **GTC: BARNESVILLE PRIMARY - THOMASTON 230 KV**

Description: Rebuild 13.24 miles of the Barnesville Primary - Thomaston 230 kV line with 200°C 1351 ACSS conductor. Replace line switches and jumpers.

Supporting
Statement: Barnesville Primary - Thomaston 230 kV line overloads under contingency.

In-Service
Year: 2029

Project Name: **GTC: BAY CREEK 230/115 KV SECOND AUTO TRANSFORMER**

Description: Install a second 230/115 kV auto transformer at the Bay Creek substation.

Supporting
Statement: The Bay Creek - Monroe 115 kV line overloads under contingency.

In-Service
Year: 2029

Project Name: **GTC: BUZZARD ROOST - THORNTON ROAD 230 KV REBUILD**

Description: Rebuild the Buzzard Roost - Thornton Road 230 kV line, approximately 1 mile, with 200°C 1351 ACSS conductor.

Supporting
Statement: The Buzzard Roost - Thornton Road 230 kV line overloads under contingency.

In-Service
Year: 2029

Project Name: **GTC: CLARKSBORO - WINDER PRIMARY 230 KV REBUILD**

Description: Rebuild approximately 14 miles of the Clarksboro - Winder 230 kV line with 200°C 1351 ACSS conductor.

Supporting
Statement: The Clarksboro - Winder 230 kV line overloads under contingency.

In-Service
Year: 2029

Project Name: **GTC: CLIFTONDALE - LINE CREEK 230 KV LINE**

Description: Build a new 11.6 mile 230 kV line from Cliftondale to Line Creek with 200°C 1351 ACSS Martin.

Supporting
Statement: The line is being built to resolve thermal issues in Metro West and network Metro South more.

In-Service Year:	2029
Project Name:	GTC: DAWSON CROSSING - NELSON (BLACK) REBUILD
Description:	Rebuild approximately 7.5 miles from Nelson to McClain Mountain to Big Canoe on the Dawson Crossing - Nelson (Black) 115 kV line with 200°C 795 ACSS conductor or equivalent.
Supporting Statement:	Dawson Crossing - Nelson (Black) 115 kV line overloads under contingency.
In-Service Year:	2029
Project Name:	GTC: DRESDEN - TALBOT 500 KV LINE
Description:	New 500 kV line will be built from new Talbot substation to Dresden with 100°C 1113 ACSR conductor along with a new 500/230 kV substation.
Supporting Statement:	This strategic project will address multiple thermal overloads that occur under contingency.
In-Service Year:	2029
Project Name:	GTC: DRESDEN 230 KV BREAKER REPLACEMENTS
Description:	At Dresden, the breaker duty margin will become negative starting on 06/01/2029 for five 230 kV breakers. Replace them with 230 kV higher rated breakers.
Supporting Statement:	This project is needed to increase breaker duty margins at Dresden substation to comply with NERC TPL-001-05, Section 2.3.
In-Service Year:	2029
Project Name:	GTC: HEARD COUNTY BREAKER REPLACEMENTS
Description:	The breaker duty margin will become negative starting on 10/01/2029 for four 500 kV breakers. Replace them with 500 kV higher rated breakers.
Supporting Statement:	This project is needed to increase breaker duty margins at Heard County substation to comply with NERC TPL-001-05, Section 2.3.

In-Service
Year: 2029

Project Name: **GTC: MCDONOUGH - SOUTH GRIFFIN 115 KV REBUILD - PHASE 2**

Description: Rebuild the McDonough - South Griffin 115 kV line with 200°C 1351 ACSS Martin. Replace limiting switches and jumpers with higher rated equipment.

Supporting
Statement: The McDonough - South Griffin 115 kV line overloads under contingency.

In-Service
Year: 2029

Project Name: **GTC: NEW TENASKA - WANSLEY 500 KV LINE**

Description: Construct a 5 mile long 500 kV line between Tenaska and Wansley with (3) 1113 ACSR Bluejay conductor. 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: **GTC: OHARA - SOUTH GRIFFIN 230 KV LINE RECONDUCTOR**

Description: Reconductor the 23 mile Ohara - South Griffin 230 kV line section using 200°C 1351 ACSS.

Supporting
Statement: The Ohara - South Griffin 230 kV line overloads under contingency.

In-Service
Year: 2029

Project Name: **GTC: RUM CREEK - TOMOCHICHI (BLACK) 500 KV LINE**

Description: Construct a second 500 kV line from Rum Creek to Tomochichi (Black) which is approximately 30 miles long with 100°C (3) 1113 ACSR Bluejay conductor. Make the necessary modifications at Rum Creek and Tomochichi to add breakers and terminate the line.

Supporting
Statement: This project addresses multiple thermal overloads that occur under contingency.

In-Service
Year: 2029

Project Name: **GTC: TALBOT #2 - BIG TAZEWEILL 500 KV LINE**

Description: Build a new 500 kV line from Big Tazewell to Talbot #2, approximately 20 miles. Make all necessary accommodations at Big Tazewell and Talbot #2 for the new 500 kV breakers and line termination.

Supporting
Statement: This project addresses multiple thermal overloads that occur under contingency.

In-Service
Year: 2029

Project Name: **GTC: TALBOT CO #1 230 KV BREAKER REPLACEMENTS**

Description: The breaker duty margin will become negative starting on 06/01/2029 for six 230 kV breakers. Replace them with 230 kV higher rated breakers.

Supporting
Statement: This project is needed to increase breaker duty margins at Talbot Co. #1 substation to comply with NERC TPL-001-05, Section 2.3.

In-Service
Year: 2029

Project Name: **GTC: TALBOT CO #2 230 KV BREAKER REPLACEMENTS**

Description: The breaker duty margin will become negative starting on 06/01/2029 for four 230 kV breakers. Replace them with 230 kV higher rated breakers.

Supporting
Statement: This project is needed to increase breaker duty margins at Talbot CO #2 substation to comply with NERC TPL-001-05, Section 2.3.

In-Service
Year: 2029

Project Name: **GTC: UNION CITY PRIMARY 230 KV BREAKER REPLACEMENTS**

Description: At Union City Primary, the breaker duty margin will become negative starting on 04/01/2029 for eleven 230 kV breakers. Replace them with 230 kV higher rated breakers.

Supporting
Statement: This project is needed to increase breaker duty margins at Union City Primary substation to comply with NERC TPL-001-05, Section 2.3.

In-Service
Year: 2029

Project Name: **MEAG: AULTMAN ROAD - FORT VALLEY #1 115 KV REBUILD**

Description: Rebuild approximately 8 miles of the Aultman Road - Fort Valley #1 115 kV line with 200°C 1351 ACSS conductor.

Supporting
Statement: The Aultman Road - Fort Valley #1 115 kV line overloads under contingency.

In-Service
Year: 2029

Project Name: **MEAG: SLAPPEY DRIVE - WESTOVER 115 KV LINE REBUILD**

Description: Rebuild approximately 2.92 miles of Slappey Drive - Westover 115 kV line with 200°C 1351 ACSS.

Supporting
Statement: Slappey Drive - Westover 115 kV line overloads under contingency.

In-Service Year:	2029
Project Name:	PS: ELISKA SW. - FREEMANVILLE SW. 115 KV TRANSMISSION LINE, CONSTRUCT
Description:	Construct Eliska switching station on the Lowman - Belleville 115 kV transmission path and construct Freemanville switching station on the Atmore - Brewton 115 kV transmission path. Construct ~26 miles 115 kV transmission path between these two new stations.
Supporting Statement:	Improve loading and voltage support in the area under contingency.
In-Service Year:	2029
Project Name:	PS: UNION SPRINGS 115 KV SWITCHING STATION, CONSTRUCT
Description:	Construct a new 115 kV switching station to sectionalize a ~54 mile transmission path with 5 delivery points.
Supporting Statement:	Reduce exposure and improve the reliability to the existing area delivery points.
In-Service Year:	2029
Project Name:	SOCO: ANNISTON - BYNUM 115 KV TL REACTOR
Description:	Install a 2 percent reactor along the Anniston - Bynum 115 kV TL.
Supporting Statement:	The Anniston - Bynum 115 kV transmission line overloads under contingency.
In-Service Year:	2029
Project Name:	SOCO: ASHLEY PARK 500 KV BREAKERS INSTALLATION
Description:	At Ashley Park, install three new 500 kV breakers and associated equipment to accomodate for the new Wansley and Villa Rica lines.
Supporting Statement:	This project addresses thermal overloads that occur under contingency.

In-Service Year:	2029
Project Name:	SOCO: ASHLEY PARK-WANSLEY 500 KV LINE
Description:	Construct an approximately 35 mile 500 kV line from Ashley Park to Wansley with 100°C (3) 1113 Bluejay ACSR.
Supporting Statement:	This project addresses thermal overloads that occur under contingency.
In-Service Year:	2029
Project Name:	SOCO: ATKINSON - NORTHWEST 115 KV REBUILD
Description:	Rebuild 1.2 miles of the Atkinson - Northwest 115 kV line with 200°C 1351 ACSS Martin.
Supporting Statement:	The Atkinson - Northwest 115 kV line overloads under a contingency.
In-Service Year:	2029
Project Name:	SOCO: BASSETT CREEK - TENSAW LOOP-IN
Description:	Loop the existing Bassett Creek - Tensaw 230 kV TL into the PowerSouth Lowman substation.
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:	SOCO: BIG TAZEWell - FARLEY 500 kV TL
Description:	Construct a new 500 kV line from Farley (APC) to Big Tazewell substation. Construct a 5 breaker 500 kV ring bus to loop in the Blacksmith - Talbot 500 kV line, terminate the new Big Tazewell - Farley 500 kV and Talbot #2 - Tazewell 500 kV lines. Install a 500/230 kV auto transformer to connect to the existing 230 kV switchyard.
Supporting Statement:	This project addresses multiple thermal overloads that occur under contingency.

In-Service
Year: 2029

Project Name: **SOCO: BOULEVARD - VIRGINIA AVENUE 230 KV LINE REBUILD**

Description: Rebuild 0.94 miles of the Boulevard - Virginia Avenue 230 kV line with 200°C 1351 ACSS Martin. Replace the limiting elements on the line.

Supporting
Statement: The Boulevard - Virginia Avenue 230 kV line overloads under a multiple contingency event.

In-Service
Year: 2029

Project Name: **SOCO: BUZZARD ROOST - FACTORY SHOALS 230 KV NEW LINE**

Description: Build 2 miles of new 230 kV line from Buzzard Roost to Factory Shoals with 200°C 1351 ACSS Martin.

Supporting
Statement: The Douglasville - Groover Lake 115 kV line overloads under contingency.

In-Service
Year: 2029

Project Name: **SOCO: CALVERT - WEST MCINTOSH 230 KV RECONDUCTOR**

Description: Reconductor 12 miles of the Calvert - West McIntosh 230 kV line from 1351 54/19 ACSR at 100°C to Katmai ACCS C7 at 180°C advanced conductor.

Supporting
Statement: The Calvert – West McIntosh 230 kV transmission line overloads under contingency.

In-Service
Year: 2029

Project Name: **SOCO: CENTRE - HAMMOND 115 KV TL RECONDUCTOR**

Description: Reconductor ~15 miles of the Centre - Hammond 115 kV TL from 397.5 ACSR 26/7 at 100°C to 795 ACSS 26/7 at 200°C.

Supporting
Statement: The Centre - Hammond 115 kV transmission line overloads under contingency.

In-Service Year:	2029
Project Name:	SOCO: CONYERS - KLONDIKE 230 KV SECOND LINE
Description:	Build a new 7.2 mile line from Conyers to Klondike with 200°C (2) 1351 ACSS Martin conductor. Build one new 230 kV breaker terminal at Conyers and one new 230 kV terminal at Klondike.
Supporting Statement:	The Sigman Rd - Cornish Mountain 115 kV line overloads under contingency.
In-Service Year:	2029
Project Name:	SOCO: COUNTY LINE RD TS REACTOR PROJECT
Description:	Install a new 2% series reactor on the County Line - Gaston 230 kV TL.
Supporting Statement:	The County Line - Gaston 230 kV transmission line overloads under contingency.
In-Service Year:	2029
Project Name:	SOCO: DEMOPOLIS - SELMA 115 KV TL RECONDUCTOR/UPGRADE
Description:	Reconductor ~5 miles of 115 kV from Demopolis to Sonat (Gallion), then upgrade 7.3 miles from Sonat (Gallion) to Faunsdale TS.
Supporting Statement:	The Demopolis - Selma 115 kV transmission line overloads under contingency.
In-Service Year:	2029
Project Name:	SOCO: EAST POINT - MORROW 115 KV LIMITING ELEMENTS REPLACEMENT
Description:	Remove limiting elements at the substation terminals for the East Point - Morrow 115 kV lines. This involves upgrading associated switches and jumpers with higher rating equipment.
Supporting Statement:	The East Point - Morrow 115 kV line overloads under contingency.

In-Service Year:	2029
Project Name:	SOCO: GADSDEN - GULF STATES STEEL 115 KV TL (PHASE 1)
Description:	Reconductor approximately 2.5 miles 397 26/7 ACSR to 795 ACSR 26/7 from Gulf States Steel to Morgan's Crossroads.
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:	SOCO: GASTON - BYNUM 230 kV REACTOR
Description:	Install a reactor along the Gaston - Bynum 230 kV TL.
Supporting Statement:	A reactor is needed to mitigate high loadings and overloads on the line under contingencies.
In-Service Year:	2029
Project Name:	SOCO: GOAT ROCK REACTORS INSTALLATION
Description:	Install 1% series reactors on the Fortson - Goat Rock (Black) 230 kV and Fortson - Goat Rock (White) 230 kV.
Supporting Statement:	The Fortson - Goat Rock (Black & White) 230 kV lines overload under contingency.
In-Service Year:	2029
Project Name:	SOCO: GRADY - MORROW (WHITE) 115 KV REBUILD
Description:	Rebuild line sections with 200°C 1351 ACSS Martin and replace other limiting elements.
Supporting Statement:	The Grady - Morrow (White) 115 kV line overloads under contingency.

In-Service
Year: 2029

Project Name: **SOCO: GREENE COUNTY - NORTH SELMA 230 KV UPGRADE**

Description: Upgrade ~48 miles of 1033 45/7 ACSR 100°C to 110°C.

Supporting
Statement: The Greene County - North Selma 230 kV transmission line overloads under contingency.

In-Service
Year: 2029

Project Name: **SOCO: GRID: OFFERMAN-THALMANN (BLACK) 230 KV**

Description: Rebuild the Offerman - Thalmann (Black) 230 kV line using 200°C 1351 ACSS conductor.

Supporting
Statement: The Offerman - Thalmann (Black) 230 kV line overloads under contingency.

In-Service
Year: 2029

Project Name: **SOCO: GRID: OFFERMAN - THALMANN (WHITE) 230 KV**

Description: Rebuild the Offerman - Thalmann (White) 230 kV line using 200°C 1351 ACSS conductor.

Supporting
Statement: The Offerman - Thalmann (White) 230 kV line overloads under contingency.

In-Service
Year: 2029

Project Name: **SOCO: HICKORY LEVEL - POST RD 115 KV REBUILD (PHASE 1)**

Description: Rebuild the 1.15 mile portion from Hickory Level to South Villa Rica J with 200°C 1351 ACSS Martin.

Supporting
Statement: The Hickory Level - Post Rd 115 kV line overloads under contingency.

In-Service
Year: 2029

Project Name: **SOCO: HOLT STREET - CARTER HILL RD RECONDUCTOR**

Description: Reconductor 1.81 miles of 397 ACSR 18/1 at 100°C to 795 ACSR 45/7 ACSR at 100°C from Holt Street - Carter Hill Rd.

Supporting
Statement: Provides additional operational and maintenance flexibility, which increases reliability.

In-Service
Year: 2029

Project Name: **SOCO: HURRICANE CREEK 115/230 KV AUTOBANK**

Description: Replace Hurricane Creek 230/115 kV autobank with one rated 400 MVA and convert 230 kV straight bus to a ring.

Supporting
Statement: The project addresses overloads under contingency and provides operational resiliency.

In-Service
Year: 2029

Project Name: **SOCO: JACKSON SHOALS - LOGAN MARTIN 115 kV TL UPGRADE**

Description: Upgrade ~18 miles of 115 kV TL from 795 ACSR 26/7 at 100°C to 795 ACSR 26/7 at 125°C.

Supporting
Statement: The Jackson Shoals - Logan Martin 115 kV TL overloads under contingency.

In-Service
Year: 2029

Project Name: **SOCO: JACKSON SHOALS - LOGAN MARTIN DAM 115 KV TL UPGRADE**

Description: Upgrade ~18 miles of 115 kV TL from 795 ACSR 26/7 at 100°C to 795 ACSR 26/7 at 125°C.

Supporting
Statement: The Jackson Shoals - Logan Martin Dam 115 kV TL overloads under contingency.

In-Service
Year: 2029

Project Name: **SOCO: KETTLE CREEK PRIMARY - PINE GROVE PRIMARY 115 KV REBUILD**

Description: Rebuild approximately 38.04 miles of the Kettle Creek - Pine Grove Primary 115 kV line using 200°C 1351 ACSS conductor.

Supporting
Statement: The Kettle Creek - Pine Grove 115 kV line overloads under contingency.

In-Service
Year: 2029

Project Name: **SOCO: MARTIN DAM - PEAR TREE 115 KV TL RECONDUCTOR**

Description: Reconductor 20.5 miles of 115 kV TL from Martin Dam to Pear Tree from 397 ACSR 26/7 at 100°C to 795 ACSS 26/7 at 200°C.

Supporting
Statement: The Martin Dam - Pear Tree 115 kV transmission line overloads under contingency.

In-Service
Year: 2029

Project Name: **SOCO: MCEVER ROAD - SHOAL CREEK 115KV PARTIAL REBUILD - SEGMENT 1**

Description: Rebuild approximately 3.05 miles of the McEver Road - Shoal Creek 115 kV line with 200°C 1351 ACSS conductor.

Supporting
Statement: The McEver Road - Shoal Creek 115 kV line overloads under contingency.

In-Service
Year: 2029

Project Name: **SOCO: MERIDIAN NORTHEAST TO LAUDERDALE WEST 230 KV REBUILD**

Description: Rebuild the 6.11 mile, Meridian Northeast - Lauderdale West 230 kV transmission line with 1351 ACSS at 200°C.

Supporting
Statement: Line overloads under contingency.

In-Service Year:	2029
Project Name:	SOCO: MORROW 115 KV BREAKER REPLACEMENTS
Description:	At Morrow, the breaker duty margin will become negative starting on 06/01/2029 for one 115 kV breaker. Replace the breaker with a higher rated breaker.
Supporting Statement:	This project is needed to increase breaker duty margins at Morrow substation to comply with NERC TPL-001-05, Section 2.3.
In-Service Year:	2029
Project Name:	SOCO: 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:	2029
Project Name:	SOCO: NORCROSS - NORTH DRUID HILLS 115 KV REBUILD
Description:	Rebuild approximately 3.9 miles of the Norcross - North Druid Hills 115 kV line with 200°C 1351 ACSS Martin conductor.
Supporting Statement:	The Norcross - North Druid Hills 115 kV line overloads under contingency.
In-Service Year:	2029
Project Name:	SOCO: OPP - SOUTH ENTERPRISE 230 KV TL RECONDUCTOR
Description:	Reconductor ~25 miles of the Opp - South Enterprise 230 kV TL from 795 ACSR 26/7 at 125°C to 1351.5 ACSS 54/19 at 200°C.
Supporting Statement:	The Opp - South Enterprise 230 kV transmission line overloads under contingency.

In-Service
Year: 2029

Project Name: **SOCO: REPLACE HURRICANE CREEK 230/115 KV AUTOBANK**

Description: Replace the Hurricane Creek 230/115 kV auto bank.

Supporting
Statement: Transformer overloads under contingency.

In-Service
Year: 2029

Project Name: **SOCO: SAV: BOULEVARD - MAGNOLIA - TRUMAN PARKWAY 115 KV REBUILDS**

Description: Rebuild 3 miles of the Magnolia - Truman Parkway 115 kV from 75°C 927 ACAR to 200°C 1351 ACSS Martin conductor or higher rated conductor. Upgrade switches at Magnolia substation to a higher rating switches and jumpers at Truman Parkway. Rebuild the entire Boulevard to Magnolia 115 kV line, approximately 4.56 miles of 100°C 795 ACSR Drake, using 200°C 1351 ACSS Martin or higher rated conductor. At Magnolia, replace a switch with a higher rating.

Supporting
Statement: The Magnolia - Truman Parkway 115 kV and Boulevard - Magnolia 115 kV lines overload under contingency.

In-Service
Year: 2029

Project Name: **SOCO: SAV: COLEMAN - MELDRIM 115 KV LINE REBUILD**

Description: Rebuild the Coleman - Meldrim 115 kV line from Four Lakes - Structure 76A, approximately 8.1 miles of 477 ACSR Hawk, using 200°C 1351 ACSS Martin. Upgrade Quacco Rd Switches to a higher rating.

Supporting
Statement: The Coleman - Meldrim 115 kV line overloads under contingency.

In-Service Year:	2029
Project Name:	SOCO: SAV: DEAN FOREST - LITTLE OGEECHEE 230 KV REBUILD
Description:	Rebuild the entire line from Little Ogeechee - Salt Creek and Salt Creek - Dean Forest, approximately 8 miles, using 200°C 1351 ACSS Martin. Upgrade jumpers at the Little Ogeechee terminal.
Supporting Statement:	The Dean Forest - Little Ogeechee 230 kV line overloads under contingency.
In-Service Year:	2029
Project Name:	SOCO: SAV: LITTLE OGEECHEE 230/115 KV BANK REPLACEMENT
Description:	Replace SATX 230/115 kV auto transformer.
Supporting Statement:	The SATX 230/115 kV auto transformer overloads under contingency.
In-Service Year:	2029
Project Name:	SOCO: SOUTH TUSCALOOSA - 31ST AVENUE 115 KV TL RECONDUCTOR
Description:	Reconductor ~ 6.3 miles of 795 ACSR with Southwire C7 973 ACCS 20/7 at 180°C.
Supporting Statement:	The South Tuscaloosa - 31st Avenue 115 kV transmission line overloads under contingency.
In-Service Year:	2029
Project Name:	SOCO: TENASKA BREAKER REPLACEMENTS
Description:	The breaker duty margin will become negative starting on 10/01/2029 for five 500 kV breakers. Replace the breakers with 500 kV higher rated breakers.
Supporting Statement:	This project is needed to increase breaker duty margins at Tenaska substation to comply with NERC TPL-001-05, Section 2.3.

In-Service
Year: 2029

Project Name: **SOCO: THOMASTON 230 KV NETWORK AREA IMPROVEMENT**

Description: Rebuild the radial Thomaston - Butler 115 kV line to 230 kV network operation. Build new 230 kV breaker and a half switching station to replace end of life equipment. Make all necessary upgrades and accommodations at the substation along the line.

Supporting
Statement: Line conversion increases capacity in the Butler area and ability to move increase solar generation from the South to the North. A new 230 kV breaker and a half switching station provides better reliability and replaces end of life equipment.

In-Service
Year: 2029

Project Name: **SOCO: VIRGINIA AVENUE - WABASH AVENUE 230 KV LINE REBUILD**

Description: Rebuild 1.5 miles of the Virginia Avenue - Wabash Avenue 230 kV line with 200°C 1351 ACSS Martin conductors. Replace the limiting elements on the line.

Supporting
Statement: The Virginia Avenue - Wabash Avenue 230 kV line overloads under a multiple contingency event.

In-Service
Year: 2029

Project Name: **SOCO: WANSLEY OVERSTRESSED BREAKER REPLACEMENTS**

Description: The breaker duty margin will become negative starting on 06/01/2029 for ten 500 kV breakers. Replace them with 500 kV higher rated breakers.

Supporting
Statement: This project is needed to increase breaker duty margins at Wansley substation to comply with NERC TPL-001-05, Section 2.3.

In-Service
Year: 2029

Project Name: **SOCO: WANSLEY OVERSTRESSED BREAKER REPLACEMENTS**

Description: The breaker duty margin will become negative starting on 06/01/2029 for six 500 kV breakers. Replace them with 500 kV higher rated breakers.

Supporting
Statement: This project is needed to increase breaker duty margins at Wansley substation to comply with NERC TPL-001-05, Section 2.3.

In-Service
Year: 2029

Project Name: **SOCO: WEST MCINTOSH AUTOBANK 115 KV SWITCH UPGRADES**

Description: Upgrade three 115 kV 2000A switches to 3000A.

Supporting
Statement: Equipment reaches full rating under contingency.

In-Service
Year: 2029

Project Name: **SOCO: WIGGINS SWITCHING STATION - HURRICANE CREEK 115 KV REBUILD**

Description: Rebuild the 8.75 mile Wiggins Switching Station - Hurricane Creek 115 kV line with 1033 ACSR at 100°C.

Supporting
Statement: Line overloads under contingency.

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) 115 kV line with 200°C 1351 ACSS Martin.

Supporting
Statement: The Dawson Crossing - Nelson (White) 115 kV line overloads under contingency.

In-Service
Year: 2030

Project Name: **GTC: BONAIRE PRIMARY - EASTMAN PRIMARY 115 KV LINE REBUILD**

Description: Rebuild 41.08 miles of the Bonaire Primary - Eastman Primary 115 kV Line with 200°C 1351 ACSS Martin conductor and upgrade the limiting bus at Roddy substation with a higher rating.

Supporting
Statement: The Bonaire Primary - Eastman Primary 115 kV line overloads under multiple contingencies

In-Service
Year: 2030

Project Name: **GTC: BUZZARD ROOST - ROCKHOUSE RD 230 KV REBUILD**

Description: Rebuild the Buzzard Roost - Rockhouse Rd 230 kV line circuit 2, approximately 0.81 mile, with 200°C 1351 ACSS conductor.

Supporting
Statement: The Buzzard Roost - Rockhouse Rd 230 kV line circuit 2 overloads under contingency.

In-Service
Year: 2030

Project Name: **GTC: CAVENDER DRIVE 500/230 KV AUTO TRANSFORMER**

Description: Cavender Drive will become a 500/230 kV station looping in the Villa Rica - Union City 500 kV line, installing a 500/230 kV auto transformer.

Supporting
Statement: The project will address multiple thermal overloads that occur under contingency.

In-Service
Year: 2030

Project Name: **GTC: DOUGLASVILLE - EAST VILLA RICA SS 230 KV REBUILD**

Description: Rebuild 8.2 miles of the Douglasville - East Villa Rica 230 kV line with 200°C 1351.0 ACSS Martin conductor.

Supporting
Statement: The Douglasville - East Villa Rica 230 kV line overloads under a contingency.

In-Service
Year: 2030

Project Name: **GTC: EAST WATKINSVILLE 230 KV STATION MODIFICATION**

Description: Replace series reactors at East Watkinsville on the Russell Dam 230 kV line.

Supporting
Statement: Equipment on the East Watkinsville - Russell Dam 230 kV line overloads under contingency.

In-Service
Year: 2030

Project Name: **GTC: HARTWELL DAM - HARTWELL ENERGY 230 KV SERIES REACTORS**

Description: Replace the series reactors on the Hartwell Dam - Hartwell Energy 230 kV line with larger size.

Supporting
Statement: The reactors on the Hartwell Dam - Hartwell Energy 230 kV line overload under contingency.

In-Service
Year: 2030

Project Name: **GTC: HARTWELL ENERGY - MIDDLE FORK 230 KV LINE**

Description: Construct a new 230 kV line, approx. 35 miles, from Hartwell Energy to Middle Fork, using (2) 200°C 1351 ACSS conductor.

GTC: Expand Hartwell Energy 230 kV and Middle Fork 230 kV substations for the new line termination.

Supporting
Statement: New 230 kV line addresses multiple constraints that occur under contingency along the eastern interface.

In-Service
Year: 2030

Project Name: **GTC: POND FORK - MIDWAY 115 KV LINE**

Description: GTC: Construct approximately 6 miles of 115 kV line with minimum 170°C 1351 ACSS conductor utilizing the existing GTC owned portion of the North Jackson - Lawrence Smith 46 kV ROW. Add a second 230/115 kV auto transformer at Pond Fork substation.

Supporting
Statement: The future Banks Crossing - Pond Fork 115 kV line overloads under contingency due to an increase of load in the area.

In-Service
Year: 2030

Project Name: **GTC: ROCKVILLE - TIGER CREEK - WARTHEN 500 KV LINES**

Description: Build the new 500 kV line from Rockville to Tiger Creek and Tiger Creek to Warthen, approximately 20 miles and 9 miles long respectively with 100°C (3) 1113 ACSR Bluejay conductor. Build a 500 kV yard at Tiger Creek and install a 500/230 kV auto transformer. Make all necessary accommodations at Warthen and Rockville for the new 500 kV breakers.

Supporting
Statement: This project addresses several thermal constraints that occur under contingency.

In-Service
Year: 2030

Project Name: **GTC: THORNTON RD - CAVENDER DRIVE 230 KV NEW LINE**

Description: Build a new 7 mile 230 kV line from Cavender Drive to Buzzard Roost with 200°C 1351 ACSS Martin.

Supporting
Statement: New 230 kV line from Cavender Drive to Buzzard Roost mitigates multiple thermal overloads during a base case scenario.

In-Service
Year: 2030

Project Name: **GTC: UNION CITY LINE TRAP REPLACEMENT**

Description: Replace limiting line trap at Union City for the Ashley Park 500 kV line with higher rated equipment.

Supporting
Statement: The Union City - Ashley Park 500 kV line overloads under contingency.

In-Service
Year: 2030

Project Name: **GTC: YATES - LINE CREEK 230 KV (GREEN) REBUILD**

Description: Rebuild 16.5 miles of the Yates - Line Creek (Green) 230 kV line using 200°C 1351 ACSS Martin.

Supporting
Statement: The Yates - Line Creek 230 kV line overloads under a contingency.

In-Service
Year: 2030

Project Name: **GTC: YATES - LINE CREEK 230 KV (RED) REBUILD**

Description: Rebuild 16.5 miles of the Yates - Line Creek (Red) 230 kV line using 200°C 1351 ACSS Martin.

Supporting
Statement: The Yates - Line Creek 230 kV line overloads under a contingency.

In-Service
Year: 2030

Project Name: **MEAG: ATHENA - WARRENTON 230 KV CONVERSION**

Description: Convert the 115 kV lines from Athena - Union Point - Ray Place Road - Warrenton Primary to 230 kV operation using 200°C 1351 ACSS conductor. Add 230/115 kV transformers at Union Point Primary and Ray Place Road. Replace limiting equipment along the lines.

Supporting
Statement: The Ray Place Road - Warrenton 115 kV overloads under contingency.

In-Service
Year: 2030

Project Name: **MEAG: BARNESVILLE PRIMARY 230/115 KV BANK B REPLACEMENT**

Description: Replace the Barnesville Primary 230/115 kV bank with higher rated auto transformer.

Supporting
Statement: The Barnesville Primary 230/115 kV auto transformer surpasses its rating under contingency.

In-Service
Year: 2030

Project Name: **MEAG: FORTSON - TALBOT CO #2 230 KV REBUILD**

Description: Rebuild the Fortson - Talbot County #2 230 kV line with 200°C 1351 ACSS conductor and replace associated jumpers.

Supporting
Statement: A multiple contingency event causes the Fortson - Talbot County #2 230 kV line to overload.

In-Service
Year: 2030

Project Name: **MEAG: GOSHEN AREA STRATEGIC SOLUTION**

Description: GPC: Construct a 230 kV switching station on the Waynesboro - Wilson 230 kV line.

MEAG: Build a new 230 kV line between the switching station and Goshen, approximately 12.3 miles using 200°C 1351 ACSS conductor.

Supporting
Statement: The Augusta Corporate Park - Vogtle 230 kV line overloads under contingency.

In-Service
Year: 2030

Project Name: **SOCO: ATTALLA - GULF STATES STEEL 115 KV TL UPGRADE**

Description: Upgrade ~2.5 miles of 115 kV TL from Gulf States Steel to Attalla.

Supporting
Statement: The Attalla - Gulf States Steel 115 kV transmission line overloads under contingency.

In-Service
Year: 2030

Project Name: **SOCO: BAINBRIDGE TRANSMISSION: EAST RIVER ROAD, EAST BAINBRIDGE**

Description: This project will construct a new 115 kV 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: **SOCO: BASSETT CREEK - SUNNY SOUTH 115 KV TL REBUILD**

Description: Rebuild ~16 miles of 115 kV 397 ACSR at 100°C to 795 ACSS at 200°C from Bassett Creek - Sunny South SS.

Supporting
Statement: The Bassett Creek - Sunny South 115 kV TL overloads under contingency. Also provides additional operational and maintenance flexibility, which increases reliability.

In-Service
Year: 2030

Project Name: **SOCO: BASSETT CREEK - THOMASVILLE 115 KV TL REBUILD**

Description: Rebuild 1.2 miles of 115 kV 795 ACSR at 100°C and 10.4 miles of 397 ACSR at 125°C to 795 ACSS at 200°C from Bassett Creek - Thomasville TS.

Supporting
Statement: The Bassett Creek - Thomasville 115 kV TL overloads under contingency. Also provides additional operational and maintenance flexibility, which increases reliability.

In-Service
Year: 2030

Project Name: **SOCO: BESSEMER – SOUTH BESSEMER 115 KV TL RECONDUCTOR (PHASE 2)**

Description: Reconductor ~13 miles of 115 kV TL from South Bessemer TS to Bessemer TS from 795 ACSR at 100°C to 795 ACSS 26/7 at 200°C.

Supporting
Statement: The Bessemer - South Bessemer 115 kV transmission line overloads under contingency.

In-Service
Year: 2030

Project Name: **SOCO: BESSEMER - SOUTH BESSEMER 230 KV REBUILD**

Description: Rebuild ~15 miles of 230 kV TL from Bessemer TS - South Bessemer TS from 1033 ACSR 45/7 to 1351 54/19 ACSS 200°C.

Supporting
Statement: The Bessemer - South Bessemer 230 kV transmission line overloads under contingency.

In-Service
Year: 2030

Project Name: **SOCO: BOWEN - JUDY MOUNTAIN 230 KV REBUILD**

Description: Rebuild Bowen - Judy Mountain 230 kV line with 200°C (2) 1351 ACSS Martin conductor.

Supporting
Statement: This project is needed for generation interconnection.

In-Service
Year: 2030

Project Name: **SOCO: BOWEN - BRANDON FARM RD 230 KV REBUILD**

Description: Rebuild 0.05 miles of section with (3) Bundled 100°C Bluejay ACSR 1113 on the Bowen - Pegamore 230 kV line and replace limiting elements

Supporting
Statement: The Bowen - Brandon Farm Road 230 kV line overloads under contingency.

In-Service
Year: 2030

Project Name: **SOCO: BROADWAY - ECHECONNEE 115 KV LINE REBUILD**

Description: Rebuild the Griffin Rd to Broadway section of the Broadway - Echeconnee 115 kV line (approximately 11.5 miles) with 200°C 1351 ACSS conductor.

Supporting
Statement: The Broadway - Echeconnee 115 kV line overloads under contingency.

In-Service
Year: 2030

Project Name: **SOCO: BROADWAY - SOUTH MACON 115 KV LINE REBUILD**

Description: Rebuild the Broadway - South Macon 115 kV line (approximately 2 miles) with 200°C 1351 ACSS conductor. Replace limiting elements along the line.

Supporting
Statement: The Broadway - South Macon 115 kV line overloads under contingency.

In-Service
Year: 2030

Project Name: **SOCO: BUZZARD ROOST - TRIBUTARY 230 KV REBUILD**

Description: Rebuild the 2.8 miles Tributary - Thornton Road 230 kV line with 200°C 1351 ACSS Martin.

Supporting
Statement: The Tributary - Thornton Road line overloads under contingency.

In-Service
Year: 2030

Project Name: **SOCO: CAVENDER DRIVE - WANSLEY 500 KV LINE**

Description: Build a new 37 mile 500 kV line from Cavender Drive to Wansley with (3) 100°C Bluejay 1113 ACSR. Make accommodations at the substations for the line termination.

Supporting
Statement: The new 500 kV line mitigates multiple thermal overloads due to contingencies in the area.

In-Service
Year: 2030

Project Name: **SOCO: CORNELIA - TALLULAH LODGE 115 KV REBUILD**

Description: Rebuild approximately 9.7 miles of the Cornelia - Tallulah Lodge 115 kV line with 200°C 795 ACSS conductor.

Supporting
Statement: The Cornelia - Tallulah Lodge 115 kV line overloads under contingency.

In-Service
Year: 2030

Project Name: **SOCO: EAST POINT - TRIBUTARY 230 KV REBUILD**

Description: Rebuild the 4.2 mile section from Cavender Drive to Marietta 25 with bundled 200°C 1351 ACSS conductor on the East Point - Tributary 230 kV line.

Supporting
Statement: The East Point - Tributary 230 kV line overloads under a contingency.

In-Service
Year: 2030

Project Name: **SOCO: EAST POINT 230 KV BREAKER REPLACEMENTS**

Description: At East Point, the breaker duty margin will become negative starting on 06/01/2030 for one 230 kV breaker. Replace it with 230 kV higher rated breaker.

Supporting
Statement: This project is needed to increase breaker duty margins at East Point substation to comply with NERC TPL-001-05, Section 2.3.

In-Service
Year: 2030

Project Name: **SOCO: EAST POINT 230 KV SWITCH REPLACEMENT**

Description: Replace the switches and jumpers associated with the East Point - Tributary 230 kV line with higher rated equipment.

Supporting
Statement: Terminal equipment exceeds its thermal rating under contingency.

In-Service
Year: 2030

Project Name: **SOCO: ECHECONNEE - WELLSTON 115 KV LINE REBUILD**

Description: Rebuild approximately 1.5 miles of the North Warner Robins - South Warner Robins segment of the Echeconnee - Wellston 115 kV line with 200°C 1351 ACSS conductor and the limiting elements along the line with higher ratings. Replace the bus and jumper at North Warner Robins with (2) 1590 AAC.

Supporting
Statement: The Echeconnee - Wellston 115 kV line overloads under contingency.

In-Service
Year: 2030

Project Name: **SOCO: GAINESVILLE #2 - MCEVER ROAD 115 KV REBUILD**

Description: Rebuild approximately 5.3 miles of the Gainesville #2 - McEver Rd 115 kV line with 200°C 1351 ACSS conductor.

Supporting
Statement: The Gainesville #2 - McEver Rd 115 kV line overloads under contingency.

In-Service Year:	2030
Project Name:	SOCO: GLENWOOD SPRINGS - LAKE OCONEE 115 KV LINE REBUILD
Description:	Rebuild the Glenwood Springs - Putnam Sawmill Jun - North Eatonton Junction section of the line with 200°C 1351 ACSS conductor.
Supporting Statement:	The Glenwood Springs - Lake Oconee 115 kV line overloads under base case conditions.
In-Service Year:	2030
Project Name:	SOCO: GLENWOOD SPRINGS 115 KV CAP BANK
Description:	Install a 115 kV capacitor bank at Glenwood Springs substation.
Supporting Statement:	Low bus voltage issues were identified on several 115 kV buses due to a contingency.
In-Service Year:	2030
Project Name:	SOCO: GOLDENS CREEK - WARRENTON PRIMARY 230 KV REBUILD
Description:	Rebuild approximately 0.34 miles of the Goldens Creek - Warrenton Primary 230 kV line with 200°C 1351 ACSS Martin.
Supporting Statement:	The Goldens Creek - Warrenton Primary 230 kV line overloads under contingency.
In-Service Year:	2030
Project Name:	SOCO: GORDON-SANDERSVILLE #1 115 KV 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 #1 115 kV line with 100°C ACSR 795 conductor.
Supporting Statement:	The Gordon - Sandersville #1 115 kV line overloads under contingency.

In-Service
Year: 2030

Project Name: **SOCO: HURRICANE CREEK – WIGGINS SWITCHING STATION 115 KV TL**

Description: Rebuild 8.7 mile Hurricane Creek - Wiggins Switching Station 115 kV line with 1033 ACSR at 100°C operation (or equivalent).

Supporting
Statement: The project addresses overloads under contingency.

In-Service
Year: 2030

Project Name: **SOCO: IPO BREAKER UPGRADES AT LINE CREEK 230 KV**

Description: Replace breakers at Line Creek with IPO (Independent Pole Operated) breakers.

Supporting
Statement: This project is needed to increase breaker duty margins at Line Creek substation to comply with NERC TPL-001-05, Section 2.3.

In-Service
Year: 2030

Project Name: **SOCO: JEFFERSON ROAD - WINDER PRIMARY 115 KV REBUILD**

Description: Rebuild approximately 11 miles of the Jefferson Road - Winder Primary 115 kV line with 200°C 1351 ACSS Martin conductor.

Supporting
Statement: The Jefferson Road - Winder Primary 115 kV line overloads under contingency.

In-Service
Year: 2030

Project Name: **SOCO: KIA MOTORS - PITTMAN RD 115 KV LINE REBUILD**

Description: Rebuild a section of Kia Motors - Pittman Rd 115 kV line with 200°C 1351 ACSS conductor.

Supporting
Statement: Kia Motors - Pittman Rd 115 kV line overloads under contingency.

In-Service
Year: 2030

Project Name: **SOCO: LAWRENCEVILLE - WINDER PRIMARY 115 KV LINE REBUILD**

Description: Rebuild approximately 1.2 miles of the Lawrenceville - Winder 115 kV line with 200°C 795 ACSS conductor.

Supporting
Statement: The Lawrenceville - Winder Primary 115 kV transmission line overloads under contingency.

In-Service
Year: 2030

Project Name: **SOCO: LEEDS TS – MOODY SS 115 KV TRANSMISSION LINE RECONDUCTOR**

Description: Leeds – Moody 115 kV TL: Reconductor ~5 miles of 795 45/7 ACSR at 100°C with 1033.5 45/7 ACSS at 200°C.

Supporting
Statement: The Leeds - Moody 115 kV transmission line overloads under contingency.

In-Service
Year: 2030

Project Name: **SOCO: LOCH FIVE - S. BESSEMMER 500 KV TL**

Description: Construct ~63 miles of new 500 kV TL of bundled (3) 1033.5 ACSR 45/7 at 100°C from Lock Five Substation to S. Bessemer. Construct a new 500/230 kV Bank and 500 kV switchyard named Lock Five near Green County Substation. Expand S. Bessemer TS 500 kV yard to accommodate the new line terminal.

Supporting
Statement: This project alleviates several system constraints in the 230 kV network while providing increased operational flexibility.

In-Service
Year: 2030

Project Name: **SOCO: MARTIN DAM - NORTH AUBURN 115 KV TL RECONDUCTOR**

Description: Reconductor ~27 miles of 115 kV TL from Martin Dam to North Auburn from 397 ACSR 26/7 at 100°C to 795 ACSS 26/7 at 200°C.

Supporting
Statement: The Martin Dam - North Auburn 115 kV transmission line overloads under contingency.

In-Service
Year: 2030

Project Name: **SOCO: NORTH GEORGIA NETWORK UPGRADES**

Description: Construct approximately 7 miles of 115 kV line with minimum 170°C 1351 ACSS conductor on the North Jackson - Lawrence Smith 46 kV ROW that is to be retired.

Supporting
Statement: The future Banks Crossing - Pond Fork 115 kV line overloads under contingency.

In-Service
Year: 2030

Project Name: **SOCO: PLANT WATSON – LANDON #2 115 kV TL**

Description: Rebuild 5.04 mile 115 kV line with 1351 ACSR (or 795 ACSS at 160°C) at Landon: Replace 1033 ACSR strain bus.

Supporting
Statement: The project addresses overloads under contingency.

In-Service
Year: 2030

Project Name: **SOCO: SWITCH WAY 230 KV BREAKER REPLACEMENTS**

Description: The breaker duty margin will become negative starting on 10/01/2029 for two 230 kV breakers at Switch Way. Replace them with 230 kV higher rated breakers.

Supporting
Statement: This project is needed to increase breaker duty margins at Switch Way substation to comply with NERC TPL-001-05, Section 2.3.

In-Service
Year: 2030

Project Name: **SOCO: TALLULAH LODGE - TOCCOA 115 KV REBUILD**

Description: Rebuild the entire Tallulah Lodge - Toccoa 115 kV line with 100°C 795 ACSR conductor, approximately 10.3 miles. Replace limiting elements in substations along the line.

Supporting
Statement: The Tallulah Lodge - Toccoa 115 kV line overloads under contingency.

In-Service
Year: 2030

Project Name: **SOCO: WARTHEN 500 KV SUBSTATION RECONFIGURATION**

Description: Reconfigure the Warthen 500 kV substation from ring bus to breaker and half.

Supporting
Statement: This project resolves multiple thermal overloads under contingency.

In-Service
Year: 2031

Project Name: **GTC: ACHORD ROAD - NORTH DUBLIN 115 KV LINE**

Description: Rebuild the Achord Road to North Dublin 115 kV line, approximately 9.84 miles, with 200°C 1351 ACSS conductor.

Supporting
Statement: The Achord Road to North Dublin 115 kV line overloads under contingency.

In-Service
Year: 2031

Project Name: **GTC: AVERY - HOPEWELL 115 KV RECONDUCTOR**

Description: Reconductor the Hopewell to Birmingham line section (approximately 3.3 miles) on the Avery - Hopewell 115 kV line with 100°C 1033 ACSR conductor. Replace jumper at Birmingham with 1590 AAC jumper.

Supporting
Statement: The Avery - Hopewell 115 kV line overloads under contingency.

In-Service
Year: 2031

Project Name: **GTC: BONAIRE PRIMARY - ECHECONNIE 115 KV LINE**

Description: Rebuild the Bonaire Primary - Echeconnee 115 kV line, approximately 19 miles with 200°C 1351 ACSS conductor.

Supporting
Statement: The Bonaire Primary - Echeconnee 115 kV line overloads under multiple contingencies.

In-Service
Year: 2031

Project Name: **GTC: DRESDEN JUMPER REPLACEMENT**

Description: Replace the Jumpers at Dresden limiting the Dresden - Yates 230 kV line with higher rated jumpers.

Supporting
Statement: The jumpers overload under contingency.

In-Service
Year: 2031

Project Name: **GTC: MCDONOUGH - OLA 115 KV REBUILD**

Description: Rebuild the 3.6 miles section from McGarity to Ola on the McDonough - Ola 115 kV line with 200°C 1351 ACSS Martin. Upgrade limiting elements at Ola.

Supporting
Statement: The McDonough - Ola 115 kV line overloads under contingency.

In-Service
Year: 2031

Project Name: **GTC: OLA - PORTERDALE 115 KV REBUILD**

Description: Rebuild the Porterdale - Salem Road 115 kV line segment, approximately 2.76 miles, using 200°C 1351 ACSS Martin. Replace the limiting elements on the line.

Supporting
Statement: The Ola - Porterdale 115 kV line overloads under a contingency.

In-Service
Year: 2031

Project Name: **MEAG: PIO NONO 230/115 KV AREA SOLUTION**

Description: Build a 4 - breaker 230 kV ring bus to terminate lines from Dorsett, South Griffin, and Pitts. Install an auto transformer and build a 115 kV yard to terminate a line from Broadway. Make all necessary modifications to accommodate all the 230 kV and 115 kV lines terminations.

Supporting
Statement: This project addresses 230 kV and 115 kV thermal overloads that occur under contingency in the Central area and increases area capacity to move solar generation from the South into Central and Metro South areas.

In-Service
Year: 2031

Project Name: **SOCO: ANNISTON - CROOKED CREEK 115 KV TL RECONDUCTOR**

Description: Reconductor ~28 miles of 397 30/7 ACSR to 795 26/7 ACSR from Golden Springs DS to Crooked Creek TS.

Supporting
Statement: Provides additional operational and maintenance flexibility, which increases reliability. In addition, the line is being reconducted due to the age and condition of the structures and conductor.

In-Service
Year: 2031

Project Name: **SOCO: BARNESVILLE AREA 115 KV NETWORK SOLUTION**

Description: On the Lloyd Shoals - S. Griffin 115 kV line, replace copper conductor between Forsyth #2 - Stokes Store Rd (8.2 miles) and make it normally closed & add a breaker to network. Also replace copper conductor between Stokes Store Rd - Jackson (8.7 miles).

On the Barnesville Primary - S. Griffin 115 kV line, replace jumpers and conductors from Barnesville Pri - N. Zebulon - Upper Pike - Griffin #3 (18.2 miles).

Supporting
Statement: The project will address multiple thermal overloads that occur under multiple contingencies

In-Service
Year: 2031

Project Name: **SOCO: BAY CREEK - CONYERS 230 KV REBUILD**

Description: Rebuild the Rockdale to Bay Creek segment (approximately 15.29 miles) of the Bay Creek - Conyers 230 kV line using 200°C 1351 ACSS Martin conductor.

Supporting
Statement: The Bay Creek - Conyers 230 kV line will overload under certain contingencies.

In-Service
Year: 2031

Project Name: **SOCO: BOWEN #10 500/230 KV AUTOBANK REPLACEMENT**

Description: Replace the existing Bowen #10 500/230 kV auto transformer with a higher rated 500/230 kV auto transformer. Replace associated bus work and jumpers that are limiting elements to the new auto transformer.

Supporting
Statement: The Bowen #10 500/230 kV auto transformer overloads under contingency.

In-Service
Year: 2031

Project Name: **SOCO: 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) – 115 kV line terminations, to include a new 230/115 kV 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:	2031
Project Name:	SOCO: HATCH - WADLEY 500 KV LINE STRATEGIC PROJECT
Description:	Construct a new 500 kV line from Hatch - Wadley Primary with (3) 100°C 1113 ACSR conductor.
Supporting Statement:	The construction of the new Hatch - Wadley Primary 500 kV Line aims to address the increasing penetration of renewable generation plants and economic development in the area.
In-Service Year:	2031
Project Name:	SOCO: HICKORY LEVEL - POST RD 115 KV REBUILD (PHASE 2)
Description:	Rebuild 4.5 miles from Post Road to S Villa Rica junction with 200°C 1351 ACSS Martin.
Supporting Statement:	The Hickory Level - Post Rd 115 kV line overloads under contingency.
In-Service Year:	2031
Project Name:	SOCO: HOPE HULL AREA 115 KV 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:	2031
Project Name:	SOCO: PELL CITY AREA SOLUTION
Description:	Construct new Pell City SS and new approximately 12 mile 115 kV TL from Pell City SS – Jackson Shoals TS utilizing 795 26/7 ACSR at 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: 2031

Project Name: **SOCO: PITTMAN RD - WEST POINT (APC) 115 KV REBUILD**

Description: Rebuild Pittman Road - West Point (APC) 115 kV line with 200°C 1351 ACSS conductor. Replace the bus and associated jumpers at West Point #2 with higher rated buswork and jumpers.

Supporting
Statement: The Pittman Road - West Point (APC) 115 kV line overloads under contingency.

In-Service
Year: 2031

Project Name: **SOCO: SAV: GOSHEN (SAV) - KRAFT 115 KV LINE PARTIAL REBUILD (PHASE 2)**

Description: Rebuild 3.04 miles of Goshen - Kraft 115 kV line from Goshen - Rice Hope from 100°C 795 ACSR Drake to 200°C 1351 ACSS Martin.

Supporting
Statement: The Dyer Road - South Coweta 115 kV line overloads under contingency.

In-Service
Year: 2032

Project Name: **GTC: DYER ROAD - SOUTH COWETA 115 KV REBUILD (PHASE 2)**

Description: Rebuild the 3.2 mile section on the Dyer Road - South Coweta 115 kV line from South Coweta to McIntosh Trail with 200°C 1351 ACSS Martin and replace limiting elements at South Coweta and McIntosh Trail.

Supporting
Statement: The Dyer Road - South Coweta 115 kV line overloads under contingency.

In-Service
Year: 2032

Project Name: **SOCO: ADAMSVILLE - EAST POINT RESAG AND LIMITING ELEMENTS REPLACEMENT**

Description: Resag the Adamsville - East Point 230 kV line to 100°C operation. Remove limiting elements at East Point by replacing Vendor Rated adaptor and switches with higher rated equipment.

Supporting
Statement: The Adamsville - East Point 230 kV transmission line overloads under contingency.

In-Service
Year: 2032

Project Name: **SOCO: ALBERTA CITY - HOLT 115 KV TL**

Description: Reconductor ~4 miles of 795 ACSR at 100°C to 795 ACSS at 200°C.

Supporting
Statement: Provides additional operational and maintenance flexibility, which increases reliability.

In-Service
Year: 2032

Project Name: **SOCO: ATKINSON - NORTHSIDE DRIVE 115 KV REBUILD**

Description: Rebuild a portion of the Atkinson - Northside 115 kV line, approximately 3.2 miles from Atkinson to Chattahoochee with 200°C 1351 ACSS Martin.

Supporting
Statement: The Atkinson - Northside 115 kV line overloads under a contingency.

In-Service
Year: 2032

Project Name: **SOCO: FLOMATON 230/115 KV AUTOBANK**

Description: Install new Flomaton 230/115 kV Autobank.

Supporting
Statement: Provides additional operational and maintenance flexibility, which increases reliability.

In-Service
Year: 2032

Project Name: **SOCO: JUDY MOUNTAIN - ROME 115 KV LINE REBUILD**

Description: Rebuild the 4.9 mile Judy Mountain - Rome 115 kV Line with 200°C 1351 ACSS Martin. Replace limiting elements along the line.

Supporting
Statement: The Judy Mountain - Rome 115 kV line overloads under contingency.

In-Service
Year: 2032

Project Name: **SOCO: UNION SPRINGS - PINCKARD 115 KV TL (PHASE 1)**

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: 2033

Project Name: **GTC: CENTER PRIMARY - CLARKSBORO 230 KV REBUILD**

Description: Rebuild the Center Primary - Clarksboro Primary 230 kV line (approximate 8.3 miles) with 200°C 1351 ACSS conductor.

Supporting
Statement: The Center Primary - Clarksboro 230 kV line overloads under contingency.

In-Service
Year: 2033

Project Name: **GTC: EAST SOCIAL CIRCLE - SNELLVILLE 230 KV EQUIPMENT UPGRADE**

Description: Replace limiting elements on the East Social Circle - Snellville 230 kV line with higher rating equipment.

Supporting
Statement: Equipment on the East Social Circle - Snellville 230 kV line overloads under contingency.

In-Service Year:	2033
Project Name:	GTC: EAST WALTON - MIDDLE FORK 500 KV
Description:	Construct a new 500 kV line from East Walton to Middle Fork, approximately 45 miles long with (3) 100°C 1113 ACSR conductor. Make all necessary accommodations for new 500 kV breakers at East Walton and Middle Fork substations.
Supporting Statement:	This project addresses thermal overloads in Central and Northeast areas of GA, adds additional capacity, and improves voltage profile.
In-Service Year:	2033
Project Name:	GTC: SHOAL CREEK - SOUTH HALL 230 KV REBUILD
Description:	Rebuild approximately 7.9 miles of the Shoal Creek - South Hall 230 kV line. Upgrade limiting elements on the line.
Supporting Statement:	The Shoal Creek - South Hall 230 kV line overloads under contingency.
In-Service Year:	2033
Project Name:	SOCO: BAY CREEK - CONYERS 230 KV LIMITING ELEMENT REPLACEMENT
Description:	Replace equipment such as jumpers, switches, and traps at the Bay Creek, Rockdale, and Conyers substations with higher rating equipments.
Supporting Statement:	Beginning in 2033, the Rockdale - Bay Creek section of the Bay Creek - Conyers 230 kV line will overload under certain contingencies.
In-Service Year:	2033
Project Name:	SOCO: EAST POINT - MOUNTAIN VIEW 115 KV REBUILD
Description:	Rebuild a portion of the East Point - Mountain View 115 kV line, approximately 2.4 miles of 100°C 397.5 ACSR between East Point - College Park # 3 Junction using 200°C 1351 ACSS Martin.
Supporting Statement:	The East Point - Mountain View 115 kV line overloads under contingency.

In-Service Year:	2033
Project Name:	SOCO: MCEVER ROAD - SHOAL CREEK 115 KV PARTIAL REBUILD - SEGMENT 2
Description:	Rebuild approximately 2.9 miles of the McEver Road - Shoal Creek 115 kV line, using 200°C 1351 ACSS conductor.
Supporting Statement:	The McEver Road - Shoal Creek 115 kV line overloads under contingency.
In-Service Year:	2033
Project Name:	SOCO: MCGRAU FORD - MIDDLE FORK 500 KV LINE PROJECT
Description:	Construct a new 500 kV line from McGrau Ford to Middle Fork with (3) 100°C 1113 ACSR conductor.
Supporting Statement:	This is a strategic project to address multiple area compliance constraints, support economic development in north Georgia, and to transport the expected generation additions in Northeast Georgia.
In-Service Year:	2033
Project Name:	SOCO: PINE GROVE PRIMARY - WEST VALDOSTA 115 KV REBUILD
Description:	Rebuild approximately 3.7 miles of the Pine Grove Primary - West Valdosta 115 kV transmission line with 200°C 795 ACSS Drake.
Supporting Statement:	The Pine Grove - West Valdosta 115 kV line overloads under contingency.
In-Service Year:	2033
Project Name:	SOCO: SAV: MELDRIM 230/115 KV BANK D REPLACEMENT
Description:	Replace Meldrim 230/115 kV auto transformer
Supporting Statement:	The Meldrim 230/115 kV auto transformer overloads under contingency.

In-Service
Year: 2033

Project Name: **SOCO: WINDER PRIMARY 230 KV BREAKER INSTALLATION**

Description: Install a 230 kV breaker at the Winder Primary substation.

Supporting
Statement: The Bay Creek - LGE Monroe 230 kV line overloads under contingency.

In-Service
Year: 2034

Project Name: **GTC: CUMMING - DAWSON CROSSING 115 KV LINE REBUILD**

Description: Rebuild approximately 12.7 miles of the Cumming - Dawson Crossing 115 kV line with 200°C 1351 ACSS Martin conductor.

Supporting
Statement: The Cumming - Dawson Crossing 115 kV line overloads under contingency.

In-Service
Year: 2034

Project Name: **SOCO: ALEX CITY AREA SOLUTION**

Description: Construct new West Alex City 115 kV 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: 2034

Project Name: **SOCO: 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: 2034

Project Name: **SOCO: BELLAMY - EPES 115 KV TL REBUILD**

Description: Rebuild ~21 miles of 4/0 ACSR and 397 ACSR at 100°C from Bellamy SS to Epes SS to 795 ACSS at 200°C.

Supporting
Statement: The Bellamy - Epes 115 kV transmission line overloads under contingency. Also provides additional operational and maintenance flexibility, which increases reliability.

In-Service
Year: 2034

Project Name: **SOCO: BESSEMER – EAST PELHAM 230 KV TL UPGRADE**

Description: Upgrade ~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: 2034

Project Name: **SOCO: BULL SLUICE - POWERS FERRY 230 KV LINE REBUILD**

Description: Rebuild approx. 1.65 miles of line using 200°C 1351 ACSS Martin conductor. Replace jumpers and OHGW.

Supporting
Statement: The Bull Sluice – Powers Ferry 230 kV transmission line overloads under contingency.

In-Service
Year: 2034

Project Name: **SOCO: DEMOPOLIS TS – CEMEX 115 KV TRANSMISSION LINE**

Description: Construct ~1 mile of 115 kV TL from Demopolis to Cemex Tap using 795 ACSR 100°C.

Supporting
Statement: Provides additional operational and maintenance flexibility, which increases reliability.

In-Service
Year: 2034

Project Name: **SOCO: GORGAS - MILLER 230 KV TL UPGRADE**

Description: Upgrade ~16 miles of 1351 54/19 ACSR at 100° to 125°C from Gorgas SP to Miller SP.

Supporting
Statement: The Miller - Gorgas 230 kV transmission line overloads under contingency.

In-Service
Year: 2034

Project Name: **SOCO: HOLLY SPRINGS PRIMARY - NELSON 115 KV REBUILD**

Description: Rebuild 8.1 miles of the Holly Springs - Nelson 115 kV line with 200°C 1351.0 ACSS Martin.

Supporting
Statement: The Holly Springs Primary - Nelson 115 kV line overloads under contingency.

In-Service
Year: 2034

Project Name: **SOCO: LOCK FIVE - AUTAUGAVILLE NEW 230 KV LINE**

Description: Construct ~75 miles of new 230 kV TL of bundled (2) 1351 ACSR or equivalent (at 500 kV construction specifications) from Lock Five to Autaugaville. Note: this project was formerly planned as Greene County - South Billingsley New 230 kV TL.

Supporting
Statement: The Lock Five - South Bessemer 500 kV TL addresses constraints.

In-Service
Year: 2034

Project Name: **SOCO: MOBILE AREA NETWORKING – 3RD PATH**

Description: Construct new Dawes SS at Dawes Tap on the Big Creek – N. Theodore 115 kV TL.

Supporting
Statement: Provides additional operational and maintenance flexibility, which increases reliability.

In-Service
Year: 2034

Project Name: **SOCO: MOUNDVILLE SOLUTION**

Description: Construct a new 6-mile, 115 kV TL, 795, 26/7 ACSS at 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: 2034

Project Name: **SOCO: NORTH THEODORE AREA SOLUTION**

Description: - Reconductor ~0.9 miles of the Hollinger's Island – Holcim 115 kV TL to 795 ACSR at 100°C.
- Construct New SS near Multistate Environmental Response Trust (Formerly Known as Tronox LLC).
- Construct ~5.3 miles of 795 ACSR at 100°C 115 kV TL from N. Theodore – Praxair Tap.
- Install new 115 kV terminal at N. Theodore TS.

Supporting
Statement: Provides additional operational and maintenance flexibility, which increases reliability.

In-Service
Year: 2034

Project Name: **SOCO: ROCKY RIDGE RADIAL 115 KV TL RECONDUCTOR**

Description: Reconductor ~0.5 miles of 115 kV TL from Rocky Ridge Tap to Rocky Ridge DS from 4/0 ACSR at 50°C to 795 ACSR 26/7 at 100°C.

Supporting
Statement: Line overloads under contingency.

In-Service
Year: 2035

Project Name: **GTC: AVERY - HOLLY SPRINGS 115 KV REBUILD**

Description: Rebuild the 2.43 miles from Holly Springs to Newlight Church section of the Avery - Holly Springs 115 kV line with 200°C 1351 ACSS Martin conductor.

Supporting
Statement: The Avery - Holly Springs 115 kV line overloads under contingency.

In-Service
Year: 2035

Project Name: **SOCO: DECATUR - SCOTSDALE 115 KV LINE JUMPER REPLACEMENT**

Description: Replace the limiting jumper along the Decatur - Scottdale 115 kV line with 1590.0 AAC Coreopsis jumper.

Supporting
Statement: The Decatur - Scottdale 115 kV line overloads under a contingency.

In-Service
Year: 2035

Project Name: **SOCO: EAST POINT - MORROW 115 KV REBUILD**

Description: Rebuild a 3 mile section from East Point to College Point Tap and Morrow to Forrest Park with 200°C 1351 ACSS Martin on the East Point - Morrow 115 kV line. Rebuild portions of shared structures with the East Point - Mountain View and Mountain View - Morrow lines. Also replace limiting elements on the line.

Supporting
Statement: The East Point - Morrow 115 kV line overloads under contingency.

In-Service
Year: 2035

Project Name: **SOCO: EAST POINT - UNION CITY (WHITE) 230 KV REBUILD**

Description: Rebuild a section of the East Point - Union City 230 kV line with 200°C 1351 ACSS conductor. Replace limiting elements along the line.

Supporting
Statement: The East Point - Union City 230 kV line overloads under contingency.

In-Service Year: 2035

Project Name: **SOCO: GADSDEN - GULF STATES STEEL 115 KV TL (PHASE 2)**

Description: Replace Gulf States Steel DS with a new 5-terminal, 4-breaker 115kV ring bus (West Gadsden SS) across the street from the existing substation.

Supporting Statement: Bus at Gulf States Steel DS becomes a limiting factor upon completion of the reconductor in Phase 1.

In-Service Year: 2035

Project Name: **SOCO: GADSDEN - GULF STATES STEEL 115 KV TL (PHASE 3)**

Description: Modify Linde Gadsden CU due to retirement of Gulf States Steel DS.

Supporting Statement: Modify Linde Gadsden CU due to retirement of Gulf States Steel DS.

In-Service Year: 2035

Project Name: **SOCO: GREENVILLE AREA SOLUTION**

Description: Construct a 230 kV ring bus at Greenville TS.

Supporting Statement: This project provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year: 2035

Project Name: **SOCO: MADISON PARK - MOUNT MEIGS DS 115 KV TL RECONDUCTOR**

Description: Reconductor ~0.5 miles of 115 kV TL from Auburn University (Montgomery) to McLemore DS from 795 26/7 ACSR at 100°C to 1351 54/19 ACSR at 100°C.

Supporting Statement: This project provides additional operational and maintenance flexibility, which increases reliability.

In-Service
Year: 2035

Project Name: **SOCO: SAV: MELDRIM NEW 230/115 KV AUTOTRANSFORMER**

Description: Install a second 230/115 kV auto transformer at Meldrim with associated station equipment.

Supporting
Statement: The Meldrim 230/115 kV auto transformer overloads under contingency.

In-Service
Year: 2035

Project Name: **SOCO: UNION SPRINGS - PINCKARD 115 KV TL (PHASE 2)**

Description: Reconductor ~50 miles of 397 ACSR at 50°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:	2027
Project Name:	BULL RUN 500 KV SYNCHRONOUS CONDENSER, INSTALL
Description:	Install breaker, switches, relaying, and metering to support synchronous condensing units at Bull Run 500 kV.
Supporting Statement:	Voltage support and additional capacity is needed for economic development in the area.
In-Service Year:	2027
Project Name:	CORDOVA - YUM YUM 161 KV TRANSMISSION LINE, RECONDUCTOR
Description:	Reconductor ~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.
In-Service Year:	2027
Project Name:	HILLSBORO SOLAR GENERATION INTERCONNECTION
Description:	Construct new 161 kV station to interconnect new solar generation. Loop in an existing 161 kV transmission line to the new station. Reconductor an existing 161 kV transmission line.
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 161 kV station to interconnect new natural gas fired CC and Aeroderivative generation. Loop in area 161 kV transmission lines. reconductor/uprate fifteen existing 161 kV transmission lines 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: **LOVING KY 161 KV SUBSTATION, CONSTRUCT**

Description: Construct the Loving, KY 161 kV substation. Reconductor ~26.71 miles of 161 kV transmission line from Bowling Green to Lost City with 1351 ACSS at 140°C.
Reconductor ~8.64 miles of 161 kV transmission line from Bowling Green to East Bowling Green with 1351 ACSS at 135°C.

Supporting
Statement: Additional voltage support and thermal capacity is needed in the Bowling Green area for economic development.

In-Service
Year: 2027

Project Name: **MAURY - MONSANTO 161KV**

Description: Reconductor/rebuild 6.25 miles of the Maury - Monsanto 161kV TL and replace limiting station equipment at Maury and Monsanto.

Supporting
Statement: To support generation deliverability and operational flexibility in the Johnsonville area.

In-Service
Year: 2027

Project Name: **NORMANDY LAKE TULLAHOMA SOLAR GENERATION INTERCONNECTION**

Description: Construct new 161 kV station to interconnect new solar generation. Loop in an existing 161 kV transmission line 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: **PHILADELPHIA 161 KV REACTORS, INSTALL**

Description: Install three reactors at the Philadelphia 161 kV Substation.

Supporting
Statement: Voltage support is needed in TVA's Mississippi area under contingency.

In-Service
Year: 2027

Project Name: **ST. ELMO KY 161 KV SUBSTATION, CONSTRUCT**

Description: Construct the St. Elmo KY 161 kV substation and loop in the Casky - Edgoten 161 kV and the Paradise - Clarksville 161 kV transmission lines.

Supporting
Statement: Voltage support and additional capacity is needed for economic development in the area.

In-Service
Year: 2027

Project Name: **TRIFECTA SOLAR**

Description: Reconnector Sturgis - Bluefield MS 161 kV transmission line (10.6 miles). Replace jumper and switch at Sturgis.

Supporting
Statement: Trifect Solar adds 68.4 MW of solar to the area causing overloads on the Sturgis - Bluefield 161 kV transmission line.

In-Service
Year: 2027

Project Name: **TRINITY 161 KV CAPACITOR BANK, REPLACEMENT**

Description: Trinity 161 kV capacitor bank has failed and needs to be replaced.

Supporting
Statement: Trinity 161 kV capacitor bank has failed and needs to be replaced.

In-Service
Year: 2027

Project Name: **TS25-422**

Description: Terminate generator tie into existing 161 kV substation to provide 145 MW of solar generation.

Supporting
Statement: Scope is driven by the interconnection of new generation. This is Q422 in TVA's Interconnection Queue which is publicly available on TVA's OASIS.

In-Service
Year: 2028

Project Name: **BROWNSVILLE 161 KV AREA CAPACITOR BANK**

Description: BEA requests additional capacity for committed and perspective loads within their service territory. When the feed from Covington is lost, low voltages are seen at Brownsville 161 kV which limits their capacity to 20 MW.

Supporting
Statement: Voltage support and additional capacity is needed for economic development in the area.

In-Service
Year: 2028

Project Name: **DAVIDSON 500 KV SWITCH HOUSE, CONSTRUCT**

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 161 kV transmission line.

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: **LAGOON CREEK**

Description: Construct a new 500kV station to interconnect new combined cycle generation. Connect to existing 500kV TL.

Supporting
Statement: Scope is driven by the interconnection of new generation. This is Q624 in TVA's Interconnection Queue which is publicly available on TVA's OASIS.

In-Service
Year: 2028

Project Name: **NORTH OAKLAND - COFFEEVILLE 161 KV TRANSMISSION LINE, CONSTRUCT**

Description: Construct ~18.0 miles of new 161 kV transmission line from North Oakland - Coffeeville using 954 ACSR at 100°C and reconductor/uprate terminal equipment at Batesville 161 kV substation.

Supporting
Statement: Multiple 161 kV transmission lines overload under contingency.

In-Service
Year: 2028

Project Name: **SPRING VALLEY SOLAR GENERATION INTERCONNECTION**

Description: Construct new 161 kV station to interconnect new solar generation. Loop in an existing 161 kV transmission line to the new station. Reconductor an existing 161 kV transmission line.

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: 2028

Project Name: **TS25-425**

Description: Construct new 161 kV station to interconnect new solar generation. Connect to existing 161 kV TL. reconductor/uprate existing TL to provide thermal capacity.

Supporting
Statement: Scope is driven by the interconnection of new generation. This is Q425 in TVA's Interconnection Queue which is publicly available on TVA's OASIS.

In-Service
Year: 2028

Project Name: **TS25-429**

Description: Connect to existing TVA substation. reconductor/uprate existing TLs to provide thermal capacity.

Supporting
Statement: Scope is driven by the interconnection of new generation. This is Q429 in TVA's Interconnection Queue which is publicly available on TVA's OASIS.

In-Service
Year: 2028

Project Name: **TS25-466**

Description: Connect to existing TVA substation to interconnect new solar Generation

Supporting
Statement: Scope is driven by the interconnection of new generation. This is Q466 in TVA's
Interconnection Queue which is publicly available on TVA's OASIS.

In-Service
Year: 2028

Project Name: **TS25-512**

Description: Construct new 161 kV station to interconnect new solar generation. Connect to
existing 161 kV TL.

Supporting
Statement: Scope is driven by the interconnection of new generation. This is Q512 in TVA's
Interconnection Queue which is publicly available on TVA's OASIS.

In-Service
Year: 2028

Project Name: **TS25-514**

Description: Construct new 230 kV station to interconnect new BESS generation. Connect to
existing 230 kV TL.

Supporting
Statement: Scope is driven by the interconnection of new generation. This is Q514 in TVA's
Interconnection Queue which is publicly available on TVA's OASIS.

In-Service
Year: 2028

Project Name: **TS25-515**

Description: Construct new 161 kV station to interconnect new solar generation. Loop in 2 lines to
existing 161 kv TL. Rebuild/reconductor ~50 miles of existing TL to provide thermal
capacity

Supporting
Statement: Scope is driven by the interconnection of new generation. This is Q515 in TVA's
Interconnection Queue which is publicly available on TVA's OASIS.

In-Service
Year: 2028

Project Name: **TS25-587**

Description: Install two new breakers and terminate gen tie at existing ubstation.

Supporting
Statement: Scope is driven by the interconnection of new generation. This is Q587 in TVA's Interconnection Queue which is publicly available on TVA's OASIS.

In-Service
Year: 2028

Project Name: **TS25-600**

Description: Connect to existing TVA substation.

Supporting
Statement: Scope is driven by the interconnection of new generation. This is Q600 in TVA's Interconnection Queue which is publicly available on TVA's OASIS.

In-Service
Year: 2029

Project Name: **GUNTERSVILLE - KETONA TRANSMISSION LINE, REBUILD**

Description: Rebuild portions of the TVA Guntersville Hydro - AL Power Ketona 115 KV transmission line with single circuit 954k ACSR at 100°C.

Supporting
Statement: Additional thermal capacity is needed in area under contingency.

In-Service
Year: 2029

Project Name: **LIMESTONE - SEWELL 161 KV #2 TRANSMISSION LINE, CONSTRUCT**

Description: Construct ~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:	2029
Project Name:	MAURY, TN 161 KV CAP BANK
Description:	TVA to install capacitor bank at Maury 500 kV station on the 161 kV side. Capacitor bank to be 3 sections of 72 MVAR/216 MVAR total.
Supporting Statement:	Voltage support is needed in the Maury, TN area under contingency.
In-Service Year:	2029
Project Name:	MIDWAY - S MACON - DEKALB 161 KV TRANSMISSION LINE, CONSTRUCT
Description:	Construct ~20 miles of new 161 kV transmission line from Midway to S Macon and ~31.3 miles of 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:	2029
Project Name:	RADNOR 161 KV STATCOM, INSTALL
Description:	With the Nashville Area continuing to rapidly grow, along with spinning generation being replace by inverter bases resources, Planning sees stability concerns in the Nashville area. STATCOMs will help mitigate the issues seen in the area.
Supporting Statement:	Dynamic voltage support is needed in the Nashville area.
In-Service Year:	2029
Project Name:	RESERVATION - WHEELER 161 KV, RECONDUCTOR
Description:	Reservation - Wheeler was originally constructed in 1940. The original conductor is beyond useful life and should be replaced.
Supporting Statement:	Reservation - Wheeler was originally constructed in 1940. The original conductor is beyond useful life and should be replaced.

In-Service
Year: 2029

Project Name: **SOUTH NASHVILLE - SMYRNA 161KV TL**

Description: TVA will reconductor and install OPGW on the following transmission lines: South Nashville - Airport 161kV TL, Airport - Murfreesboro Rd 161kV TL, Murfreesboro Rd - Pin Hook 161kV TL, Pin Hook - Hurricane Creek 161kV TL, Hurricane Creek - Smyrna 161kV TL.

Supporting
Statement: Additional thermal capacity is needed in area under contingency.

In-Service
Year: 2029

Project Name: **TS25-510**

Description: Construct new 161 kV station to interconnect new solar generation. Connect to existing 161 kV TL.

Supporting
Statement: Scope is driven by the interconnection of new generation. This is Q510 in TVA's Interconnection Queue which is publicly available on TVA's OASIS.

In-Service
Year: 2030

Project Name: **APALACHIA AREA IMPROVEMENT PLAN**

Description: Construct Martin's Creek 161 kV substation. Construct ~25 miles of new transmission line 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: **CLINTON - MARTIN 161 KV, RECONDUCTOR**

Description: Reconductor the Clinton - Martin 161 kV transmission line.

Supporting
Statement: Clinton - Martin was originally constructed in 1952. The original conductor is near end of life. Planning has identified a potential future overload.

In-Service
Year: 2030

Project Name: **COLBERT - IRON CITY 161 KV RECONDUCTOR**

Description: Reconductor 25.67 mi to 795 ACSS 26/7 at 150°C. reconductor/uprate jumper, secondary device and bus work at Colbert.

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: 2030

Project Name: **DYERSBURG - HIGHWAY 412 161 KV, RECONDUCTOR**

Description: Reconductor the Dyersburg - Highway 412 161 kV transmission line.

Supporting
Statement: The conductor was installed in 1947 and is reaching end of useful life. TPS Planning has also identified potential future overloads.

In-Service
Year: 2030

Project Name: **HAMPTON 500 KV STATION, CONSTRUCT**

Description: Construct new 500/161 kV Hampton station. Loop in existing Montgomery - Wilson 500 kV transmission line (~0.1 mile from station to loop point). Loop in existing double circuit 161 kV from Montgomery to Hemlock.

Supporting
Statement: Additional thermal capacity and voltage support is needed in the Montgomery County, TN and Todd County, KY area under contingency.

In-Service
Year: 2030

Project Name: **IRON CITY - LORETTO 161 KV RECONDUCTOR**

Description: Reconductor 8.3 mi to 795 ACSS 26/7 at 150°C. reconductor/uprate jumper at Loretto.

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: 2030

Project Name: **LORETTO - CROCKETT 161 KV RECONDUCTOR**

Description: Reconductor 18.79 mi to 795 ACSS 26/7 at 150°C. reconductor/uprate jumpers at Loretto and Crockett.

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: 2030

Project Name: **MANCHESTER AREA IMPROVEMENT**

Description: TVA to construct two new transmission line segments: an 11-mile 161 kV line from Franklin to the Hillsboro Tap, and an 8-mile 161 kV line from Red Hill to the Manchester station.

Supporting
Statement: Voltage support is needed in the Manchester, TN area under contingency.

In-Service
Year: 2030

Project Name: **MANN ROAD - BROADVIEW TAP 161 KV REBUILD**

Description: Rebuild 10.04 mi to ACSS 636 26/67 set to 150°C.

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: 2030

Project Name: **MT. PLEASANT - S. COLUMBIA 161 KV RECONDUCTOR**

Description: Reconductor 12.19 mi to 954 ACSS 45/7 at 150°C. reconductor/uprate jumper at S. Columbia.

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: 2030

Project Name: **WHEELER 161 KV SWITCHYARD, RELOCATION**

Description: Build a new switchyard, Doublehead, to replace Wheeler HP 161 kV switchyard.

Supporting
Statement: A geological survey was conducted to investigate subsurface conditions within the Wheeler 161 kV switchyard. Flaws within the subgrade in the switchyard were discovered. The soil/rockfill above the bedrock (~ 10-20 ft thickness) is very soft throughout the switchyard.

In-Service
Year: 2030

Project Name: **WILSON 161 KV STATCOM, INSTALL**

Description: With the Nashville Area continuing to rapidly grow, along with spinning generation being replaced by inverter based resources, Planning sees stability concerns in the Nashville area. STATCOMs will help mitigate the issues seen in the area.

Supporting
Statement: Dynamic voltage support is needed in the Nashville area.

In-Service
Year: 2031

Project Name: **BRADLEY 500 KV SWITCH HOUSE, CONSTRUCT**

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: 2031

Project Name: **DICKSON 161 KV AREA IMPROVEMENT**

Description: Construct new Locust Creek 161 kV substation. Construct ~9.5 miles of new 161 kV transmission line from Bon Aqua to Burns. Rebuild ~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: 2031

Project Name: **MOULTON, AL 161KV**

Description: TVA to convert the existing Addison East Tap switching station to 4 position ring bus substation. This will allow the Helcion - Trade 161 kV TL line to be closed under normal configuration.

Supporting
Statement: Voltage support is needed in the Moulton, AL area under contingency.

In-Service
Year: 2031

Project Name: **MTN HOME AREA IMPROVEMENT**

Description: TVA to tap the existing Bride's Hill, AL-Trinity, AL 161kV TL and loop in the Mtn Home, AL stations (~5 miles). TVA to convert Mtn Home, AL substation from a ring bus to a breaker and a half configuration.

Supporting
Statement: Voltage support is needed in the Mtn Home area under contingency.

In-Service
Year: 2031

Project Name: **SEQUOYAH 500 KV SWITCH HOUSE, CONSTRUCT**

Description: Construct a new 500 kV switch house with new assets including breakers at the Sequoyah 500 kV substation.

Supporting
Statement: New revision of the TPL expands the single point of failure which results in violations at Sequoyah.