

In-Service Year: 2022

Project Name: **CUBA 161 KV REACTOR**

Description: Add 10-40 MVAR variable reactor at Cuba.

Supporting Statement: High voltage is seen in the Cuba area during low load scenarios.

PRELIMINARY

In-Service
Year: 2023

Project Name: **GREAT FALLS SW STA - WATEREE TIE 100KV TRANSMISSION LINE**

Description: 6-wire the Great Falls Sw Sta - Wateree Tie 100kV Transmission Line

Supporting
Statement: The Great Falls Sw Sta - Wateree Tie 100kV double circuit transmission line can overload for the loss of a parallel circuit with the replacement of the DEP owned 100/115kV transformers at Wateree Tie

In-Service
Year: 2023

Project Name: **HODGES TIE - CORONACA TIE 100KV TRANSMISSION LINE**

Description: Rebuild approximately 9.2 miles of the Hodges Tie - Coronaca Tie 100kV transmission line with 795 ACSS/TW at 200°C

Supporting
Statement: The loss of a parallel Hodes Tie - Coronaca Tie 100kV transmission line causes the remaining circuit to overload

In-Service
Year: 2023

Project Name: **SADLER TIE – DAN RIVER 100 KV TRANSMISSION LINE**

Description: Construct approximately 9.2 miles of new 100 kV transmission line between Dan River Steam Station and Sadler Tie with 954 AAC at 120°C.

Supporting
Statement: Thermal overloads occur around Dan River Steam Station and Dan River Combined Cycle Station under contingency.

In-Service
Year: 2023

Project Name: **WILKES TIE 230 KV SUBSTATION**

Description: Install a new 230/100 kV, 448 MVA transformer at Wilkes Tie.

Supporting
Statement: Thermal overloads occur near North Wilkesboro Tie and additional voltage support is needed in the area under contingency.

In-Service
Year: 2024

Project Name: **LANCASTER MAIN - MONROE MAIN 100KV TRANSMISSION LINE**

Description: Rebuild 23.8 miles of Lancaster Main - Monroe Main 100kV double circuit transmission line with 1158 ACSS/TW rated at 200°C

Supporting
Statement: Lancaster Main - Monroe Main 100kV transmission line can overload under contingency

In-Service
Year: 2024

Project Name: **NORTH GREENSBORO TIE - GREENSBORO MAIN 100KV TRANSMISSION LINES**

Description: Rebuild both North Greensboro Tie - Greensboro Main double circuit 100kV transmission lines (9.35 miles total rebuild) with 1158 ACSS/TW rated at 200°C

Supporting
Statement: Both North Greensboro Tie - Greensboro Main double circuit transmission lines can overload under contingency

In-Service
Year: 2025

Project Name: **ALLEN STEAM STATION TRANSFORMER REPLACEMENT**

Description: To facilitate the generation retirement at Allen Steam Station, both 230/100kV transformers need to be replaced with larger 448MVA units

Supporting
Statement: Allen Steam Station transformers overload under contingency

In-Service
Year: 2025

Project Name: **MOCKSVILLE MAIN - MITCHEL RIVER TIE 100KV TRANSMISSION LINE**

Description: Rebuild 10 miles of the Mocksville Main - Mitchel River 100kV double circuit transmission line with 1295 ACSR rated at 120 °C

Supporting
Statement: Mocksville Switching Station - Mitchel River Tie 100kV Double Circuit transmission line can overload under contingency

PRELIMINARY

In-Service
Year: 2022

Project Name: **ASHEBORO – ASHEBORO EAST (NORTH) 115 KV TRANSMISSION LINE**

Description: Rebuild approximately 6.5 miles of the Asheboro – Asheboro East (North) 115 kV transmission line using 1590 ACSR rated for 307 MVA. Replace disconnect switches at Asheboro 230 kV substation and both the breaker and the disconnect switches at Asheboro East 115 kV substation with equipment of at least 2000A capability.

Supporting
Statement: The Asheboro – Asheboro East (North) 115 kV transmission line overloads under contingency.

In-Service
Year: 2022

Project Name: **IND 304440 – MAXTON 115 KV RECONDUCTOR**

Description: Reconductor approximately 3.5 miles of the IND 304440 – Maxton 115 kV transmission line with 795 ACSR. Replace existing 600A switches with 1200A switches.

Supporting
Statement: The IND 304440 – Maxton section of the Weatherspoon – IND 304440 115 kV transmission line overloads under contingency.

In-Service
Year: 2022

Project Name: **IND 304731-DPC WATEREE PLANT 115 KV TRANSMISSION LINE**

Description: Upgrade the Elgin Tap – DPC Wateree Plant section (5 miles) of the IND 304731–DPC Wateree Plant 115kV line to its full 336 MCM ACSR conductor rating (from 170 deg F to 212 deg F).

Supporting
Statement: Elgin Tap – DPC Wateree Plant 115 kV section overloads under contingency.

In-Service Year: 2022
Project Name: **WATEREE 115KV PLANT REPLACE TRANSFORMERS**
Description: Replace existing 150 MVA, 115/100kV transformer bank with two 168 MVA, 115/100kV transformers.
Supporting Statement: The existing Wateree transformer bank overloads under contingency.

In-Service Year: 2025
Project Name: **CARTHAGE 230 KV SUBSTATION**
Description: Construct Carthage 230 kV Substation
Supporting Statement: Various contingencies cause overloads and low voltages in the area.

In-Service Year: 2026
Project Name: **WSPN-IND 304440 115 KV TRANSMISSION LINE**
Description: Reconductor approximately 9.0 miles from Maxton to Pembroke 115 kV substation with 795 MCM ACSR or equivalent. Replace the existing 600A switch (45-2) with a 1200A switch.
Supporting Statement: The Maxton-Pembroke section of the Weatherspoon-Ind 304440 115 kV transmission line overloads under contingency.

In-Service Year: 2027
Project Name: **BRUNSWICK #1 – JACKSONVILLE 230 KV TRANSMISSION LINE**
Description: Loop the existing Brunswick Plant Unit 1 – Jacksonville 230 kV transmission line into the Folkstone 230 kV substation. Also, convert the Folkstone 230 kV bus configuration to breaker-and-one-half by installing three (3) new 230 kV breakers.
Supporting Statement: The Castle Hayne – Folkstone 115 kV transmission line overloads under contingency.

In-Service
Year: 2028

Project Name: **DURHAM – RTP 230 KV TRANSMISSION LINE**

Description: Reconductor approximately 10.0 miles of the Durham – RTP 230 kV transmission line with bundled 6 – 1590 ACSR rated for 1195 MVA.

Supporting
Statement: The Durham – RTP 230 kV transmission line overloads under contingency.

PRELIMINARY

In-Service
Year: 2026

Project Name: **ASHEVILLE PLANT – OTEEN WEST 115 KV TRANSMISSION LINE, BALDWIN TAP**

Description: Construct approximately 2.2 miles of new 115 kV transmission line from the Asheville Plant – Oteen West 115 kV transmission line to the Asheville Plant – Oteen East 115 kV transmission line, with 795 ACSR. The Baldwin 115 kV substation will be reconnected to this new tap line.

Supporting
Statement: Additional voltage support is needed in the Baldwin area under contingency.

In-Service
Year: 2026

Project Name: **Craggy-Enka 230 KV TRANSMISSION LINE**

Description: Construct approximately 10.0 miles of new 230 Kv transmission line from the Craggy 230 Kv substation to the Enka 230 Kv substation with 3-954 ACSS-TW or equivalent conductor rated for 710 MVA.

Supporting
Statement: The Enka–West Asheville 115 kV line overloads under contingency.

In-Service
Year: 2021

Project Name: **ARGYLE INJECTION**

Description: Build a new 230/115kV substation (Argyle). Loop-in Shoal River-Smith 230kV line and Glendale Road Tap-Glendale Road 115kV line section. Reconductor Glendale Road Tap-Argyle line section to a minimum of 1044 Amps (208 MVA). Build a new 115kV line of approximately 5 miles rated at 1495 Amps (298 MVA) to Glendale Road Tap to create new Argyle-Holmes Creek 115kV line. Install a 230/115kV, 500 MVA autotransformer at Argyle substation.

Supporting
Statement: Avoids potential consequential load shedding in the area under N-1-1 contingencies

In-Service
Year: 2021

Project Name: **CRIST GENERATION EXPANSION PROJECT**

Description: Construct new 230kV Crist CT switchyard to connect 4-235MW CTs. Loop existing Crist-Alligator Swamp #2-230kV and Crist-Bellview 230kV lines into new Crist CT switchyard.

Required transmission upgrades:

- Brentwood-Crist 230kV (1928A, 768MVA)(7.6miles)
- Crist-Scenic Hills 115kV #1 (1800A, 359MVA)(2.9miles)
- Bellview-Crist 230kV (1928A, 768MVA)(8.9miles)
- Bellview 230/115kV Transformer (increase to 500MVA)
- Eastgate-Scenic Hills 115kV (1005A, 200MVA)(4.8miles)
- Crystal Beach-Bluewater 115kV 7-minutes Emergency Rating (1110A, 221MVA)
- 1-55MVAR, 230kV cap bank at Laguna Beach

Supporting
Statement: Revised resource integration in Gulf Power Area.

In-Service
Year: 2021

Project Name: **RAVEN-SINAI CEMETARY 161KV TRANSMISSION LINE**

Description: Build a new 161kV line of approximately 176 miles rated at 3,210 Amps (895 MVA) from Raven (FPL) to Sinai Cemetery (GP) substations. Add a 230/161kV transformer at Raven and Sinai substations.

Supporting
Statement: This project will help meet future load growth and continue to improve reliability in a low cost manner for Gulf Power's customers by implementing a direct transmission connection between Gulf Power and FPL.

In-Service
Year: 2022

Project Name: **DEATON INJECTION PHASE I & II**

Description: Build a new 230/115kV substation (Deaton) looping-in the existing Crist-South Crestview #1 & #2-115kV lines, Blackwater-Crooked Creek 115kV line and Alligator Swamp-Miller Bayou 230kV line. Add a 230/115kV, 500MVA autotransformer.

Supporting
Statement: This project eliminates several overloads under a number of contingency scenarios. This project also provides additional operational and maintenance flexibility which then increases reliability.

In-Service
Year: 2023

Project Name: **ARGYLE – SANTA ROSA 115 KV TRANSMISSION LINE**

Description: Build a new 115kV line of approximately 45 miles rated at 1495 Amps (298 MVA built for 230kV operated at 115kV) from new Argyle substation to Santa Rosa substation. Build a new 115kV line of approximately 7.4 miles (common structure) from Santa Rosa to Sandestin substations. Build a 3-breaker ring bus substation at Sandestin site.

Supporting
Statement: This project eliminates several overloads under a number of contingency scenarios. This project also provides additional operational and maintenance flexibility which then increases reliability.

In-Service
Year: 2024

Project Name: **HOLMES CREEK – SOUTH CRESTVIEW 115 KV TRANSMISSION LINE**

Description: Rebuild the ~54.4 mile section of 336.4 ACSR 26/7 at 75°C from Holmes Creek-Pittman-Geneva Tap-Glendale Tap-East Crestview Tap-South Crest View with 795 26/7 ACSR at 100°C (1,086A)

Supporting
Statement: This project eliminates high loadings under contingency scenarios. This project also provides additional operational and maintenance flexibility, which increases reliability.

In-Service
Year: 2027

Project Name: **SINAI-GASKIN 115KV TRANSMISSION LINE**

Description: Upgrade/reconductor Sinai-Altha (PS) 115kV line section to a minimum of 567Amps (113MVA)

Supporting
Statement: The Sinai-Callaway 115 kV transmission line overloads under contingency.

In-Service
Year: 2022

Project Name: **CANE RUN SWITCHING TO CANE RUN 11 TAP 138KV TRANSMISSION LINE**

Description: Upgrade approximately 1.82 miles of the Cane Run Switching to Cane Run 11 Tap 138 kV transmission line (795 MCM 26X7 ACSR) to a maximum operating temperature of 212°F.

Supporting
Statement: The Cane Run Switching to Cane Run 11 Tap 138kV line overloads under contingency.

In-Service
Year: 2022

Project Name: **HARDIN COUNTY SUBSTATION ADDITIONS**

Description: Install a second 345/138 kV, 450 MVA transformer at Hardin County. Install a second 138/69kV, transformer at Hardin County. Install a second 69kV line Elizabethtown - Hardin County.

Supporting
Statement: Additional voltage support is needed in the Elizabethtown area under contingency.

In-Service
Year: 2023

Project Name: **BROWN NORTH 345/138KV #2 TRANSFORMER**

Description: Install a second Brown North 345/138kV, 450 MVA transformer at Brown North. Upgrade the terminal equipment associated with breaker 152-724 at Brown North for the Brown North to Pisgah 138kV line including the 1200A disconnects associated with the breaker.

Supporting
Statement: The Brown North 345/138kV Transformer overloads under contingency.

In-Service
Year: 2025

Project Name: **MIDDLETOWN TO BUCKNER 345KV TRANSMISSION LINE**

Description: Replace the 345kV 2000A breakers associated with the Middletown to Buckner 345kV line with 3000A breakers.

Supporting
Statement: The Middletown to Buckner 345kV line overloads under contingency.

PRELIMINARY

In-Service
Year: 2021

Project Name: **FOUNTAIN 115KV CAP BANK**

Description: Install a 30 Mar capacitor bank at the Fountain 115kV substation.

Supporting
Statement: There is a need for voltage support in the immediate area under contingency and additional reactive resources are needed in this area to resolve those issues.

In-Service
Year: 2021

Project Name: **LIBERTY 230/115 KV TRANSFORMER ADD THIRD TRANSFORMER**

Description: Add a third 150 MVA transformer

Supporting
Statement: The existing 230/115 kV, 150 MVA transformers at Liberty Substation overload under contingency.

In-Service
Year: 2022

Project Name: **ELSANOR-MIFLIN 115KV SECOND LINE**

Description: Construct approximately 12 miles of new 115kV transmission line from Elsanor to Miflin with 795 ACSR at 100°C.

Supporting
Statement: The existing Elsanor-Miflin 115kV transmission line overloads under contingency.

In-Service
Year: 2022

Project Name: **WING 115KV SWITCHING STATION**

Description: Construct a new 115kV switching station for the purpose of interconnection the Wing Solar facility.

Supporting
Statement: This station is needed to serve as the POI for a new 80MW solar facility.

In-Service
Year: 2023

Project Name: **BREWTON - FREEMANVILLE 115KV DESIGN TEMP UPGRADE**

Description: Upgrade the designed operating temperature for approximately 25 miles of 115 kV transmission line from Brewton to Freemanville. This 556 ACSR line will have a designed operating temperature of 212°F (100°C) following the completion of the project.

Supporting
Statement: The Brewton - Freemanville transmission line overloads under contingency and additional line capacity is needed to prevent system reconfiguration during contingency.

In-Service
Year: 2023

Project Name: **GASKIN – SOUTHPORT 115 KV TRANSMISSION LINE**

Description: Construct approximately 9.0 miles of new 115 kV transmission line from Gaskin Switching Station to Southport substation with 795 ACSR at 100°C.

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

In-Service
Year: 2024

Project Name: **BELLEVILLE - GANTT 230 KV DESIGN TEMPERATURE UPGRADE**

Description: Operating temperature upgrade on approximately 40.0 miles of 230 kV transmission line from Belleville 230kV Station to Gantt 230kV Substation to 212°F (100°C).

Supporting
Statement: The existing 230kV transmission line overloads under contingency.

In-Service
Year: 2024

Project Name: **EREC 115KV CONVERSION**

Description: This project will convert 21.36 miles of 46kV transmission to 115kV operation. Three 46kV distribution delivery points will also be upgraded to 115kV service as part of the project.

Supporting
Statement: To support additional load growth in the area.

In-Service
Year: 2024

Project Name: **OAK GROVE SWITCHING TO CHUMUCKLA 115KV CONVERSION**

Description: Construct a new 115kV transmission line from Oak Grove Switching 115kV to Chumuckla 115kV which will replace the existing 46kV transmission line.

Supporting
Statement: This line will complete a 115kV network path from Wye 115kV Switching to Oak Grove 115kV Switching to provide transmission redundancy for area delivery points.

In-Service
Year: 2021

Project Name: **BOULEVARD - NORCROSS 115 KV TRANSMISSION LINE**

Description: Replace the 600 amp disconnect switches with devices adequate to carry a minimum of 2000 amps at North Druid Hills on the Boulevard - Norcross 115 kV line.

Supporting
Statement: The Boulevard - Norcross 115 kV line overloads under contingency.

In-Service
Year: 2021

Project Name: **DAWSON PRIMARY: GTC LINE REROUTE AND UPGRADES**

Description: Construct approximately 5 miles of new 115 kV line from Greenhouse road to Cordrays Mill. GTC will rebuild its 46 kV line from Cordrays Mill to Dawson Primary to 115 kV operation. GPC will add a line terminal in the Dawson Primary substation.

Supporting
Statement: Mitigates overloads on the Blakely Primary -Mitchell 115kV line.

In-Service
Year: 2021

Project Name: **FORTSON 500 KV RELAY REPLACEMENT**

Description: Replacing breaker failure relay scheme at Fortson substation (MEAG).

Supporting
Statement: The Fortson 230 kV Relay Failure results in several thermal overloads.

In-Service
Year: 2021

Project Name: **GORDON - SANDERSVILLE #1 115 KV TRANSMISSION LINE UPGRADE**

Description: Upgrade the 30 mile, 50°C 336.4 ACSR, Gordon - Robins Spring section of the Gordon - Sandersville #1 115 kV line for 100°C operation.

Supporting
Statement: The Gordon - Sandersville 115 kV line section overloads under contingency.

In-Service
Year: 2021

Project Name: **GOSHEN - VOGTLE 230 KV SECOND PILOT**

Description: Add a second pilot projection scheme to the Goshen - Vogtle 230 kV line.

Supporting
Statement: Ensure the Goshen - Vogtle line is redundantly protected.

In-Service
Year: 2021

Project Name: **GOSHEN 230 KV REACTORS**

Description: Install a series reactor at Goshen substation.

Supporting
Statement: The Goshen - South Augusta (white) 230 kV line overloads under contingency.

In-Service
Year: 2021

Project Name: **THURMOND DAM ANTI-ISLANDING**

Description: Install a second anti-islanding scheme at Thurmond Dam.

Supporting
Statement: Thurmond Dam creates an island with distribution substations under contingency.

In-Service
Year: 2021

Project Name: **WADLEY PRIMARY 500/230 KV SUBSTATION**

Description: Construct a new 500 kV substation on the Vogtle – Warthen 500 kV transmission line.
Install a 500/230 kV, 2016 MVA transformer that ties to the Wadley Primary 230 kV bus.
Upgrade the 230 kV bus at Wadley Primary with 2-1590 AAC.

Supporting
Statement: Project enhances area reliability.

In-Service
Year: 2022

Project Name: **AUSTIN DRIVE - MORROW 115 KV TRANSMISSION LINE**

Description: Rebuild approximately 7.1 miles of 100°C 336 ACSR conductor with 100°C 795 ACSR conductor on the Austin Drive - Morrow 115 kV line.

Supporting
Statement: This project addresses Maintenance needs.

In-Service
Year: 2022

Project Name: **BASSETT CREEK – ELLICOTT 230 KV TRANSMISSION LINE**

Description: Construct approximately 53 miles of 1351 ACSS at 200°C from Bassett Creek TS to Tensaw SS.
Construct approximately 8 miles of 1351 ACSS at 200°C from Calvert SS to Ellicott SS.

Supporting
Statement: There are multiple transmission lines in the local area that overload under contingency. These projects provide additional operational and maintenance flexibility which then increases reliability.

In-Service
Year: 2022

Project Name: **BILOXI CEDAR LAKE RD - OCEAN SPRINGS NE 115 KV TRANSMISSION LINE**

Description: Reconductor approximately 4.3 miles from Tucker Road to Cedar Lake Road 115 kV transmission line.

Supporting
Statement: The Biloxi Cedar Lake Road - Ocean Springs NE overloads under contingency.

In-Service
Year: 2022

Project Name: **BILOXI CEDAR LAKE ROAD DS BUS REPLACEMENT**

Description: Replace the Strain bus and jumpers to the Ocean Springs 115 kV line at Biloxi Cedar Lake Rd DS.

Supporting
Statement: Equipment at Biloxi Cedar Lake Road overloads under contingency.

In-Service
Year: 2022

Project Name: **BROADWAY – SOUTH MACON 115 KV LINE**

Description: Rebuild 1.4 miles of 75°C 636 AAC conductor along the Broadway - South Macon 115 kV line using 100°C 1351 ACSR conductor. Replace 115 kV 636 ACSR jumpers at Graphic Packaging substation with 1590 AAC jumpers.

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

In-Service
Year: 2022

Project Name: **DUNCANVILLE – SOUTH BESSEMER 230 KV TRANSMISSION LINE**

Description: Upgrade approximately 27.0 miles of 1033.5 ACSR from Duncanville to South Bessemer 230 kV transmission line from 100°C to 115°C.

Supporting
Statement: This transmission line overloads under contingency. Provides additional operational and maintenance flexibility, which increases reliability.

In-Service
Year: 2022

Project Name: **EUFAULA – FORT MITCHELL 115 KV TRANSMISSION LINE RECONDUCTOR**

Description: Reconductor approximately 10.0 miles of 397 ACSR of the Eufaula to Ft. Mitchell 115 kV transmission line with 795 ACSR at 100°C .

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

In-Service
Year: 2022

Project Name: **GORDON - NORTH DUBLIN 115 KV TRANSMISSION LINE UPGRADE**

Description: Upgrade the North Dublin - Northwest Dublin - Evergreen Church Road line sections (currently 50°C CU 4/0) for 75°C operation.

Supporting
Statement: The Gordon - North Dublin 115 kV line overloads under contingency.

In-Service
Year: 2022

Project Name: **LUMPKIN SOLAR IMPROVEMENTS**

Description: Install reactors at Palmyra substation.

Supporting
Statement: The Dawson Primary - Palmyra 115 kV line overloads under contingency.

In-Service
Year: 2022

Project Name: **PASS CHRISTIAN CAPACITOR BANKS**

Description: Install two (2) 15 MVAR capacitor banks at Pass Christian.

Supporting
Statement: Some contingencies can create low voltages along the Mississippi Gulf coast.

In-Service
Year: 2022

Project Name: **POSSUM BRANCH 230/115 KV PROJECT**

Description: Construct approximately 14 miles of new 230 kV line from Possum Branch to Roopville with 1351 ACSR conductor at 100°C. Install a 230/115 kV, 400 MVA transformer at Possum Branch with a 230 kV bus. (GPC): Construct a 230 kV a ring bus switching station at Roopville along with additional substation modifications.

Supporting
Statement: Project is necessary to facilitate planned maintenance in the Bremen area.

In-Service
Year: 2022

Project Name: **WEAVER CAPACITOR BANK**

Description: Install a new 115 kV, 15 MVAR capacitor bank at Weaver DS.

Supporting
Statement: Low voltage in the area under contingency. This project provides voltage support under contingency scenarios.

In-Service
Year: 2023

Project Name: **BARRY NORTH MOBILE 115 KV UPGRADE**

Description: Upgrade approximately 11.98 miles of 397 26/7 ACSR at 75°C to 100°C from Barry SP to Radcliffe DS Tap.

Supporting
Statement: The Barry - North Mobile 115 kV transmission line overloads under contingency.

In-Service
Year: 2023

Project Name: **BIG CREEK - ELLICOTT 230 KV UPGRADE**

Description: Upgrade approximately 30.4 miles of 1351 51/19 ACSR at 75°C to 100°C from Ellicott SS to Big Creek TS.

Supporting
Statement: The Big Creek - Ellicott 230 kV transmission line overloads under contingency.

In-Service
Year: 2023

Project Name: **BONAIRE - KATHLEEN 115 KV TRANSMISSION LINE RECONDUCTOR**

Description: Reconductor approximately 6 miles of the Bonaire Primary - Kathleen 115 kV transmission line using 1351 ACSR conductor.

Supporting
Statement: The Bonaire - Kathleen 115 kV line overloads under contingency.

In-Service
Year: 2023

Project Name: **CENTRAL CORRIDOR SOLUTION**

Description: Rebuild approximately 97.0 miles of the West Montgomery - Greenville - Evergreen - North Brewton 115 kV transmission line with 795 ACSS at 200°C.

Supporting
Statement: Multiple sections of the central corridor overload under contingency. This project also provides additional operational and maintenance flexibility which then increases reliability.

In-Service
Year: 2023

Project Name: **CROOKED CREEK CAPACITOR BANKS**

Description: Install two new 115 kV, 15 MVAR capacitor banks at Crooked Creek TS.

Supporting
Statement: Low voltage in the area under contingency. This project provides voltage support under contingency scenarios.

In-Service
Year: 2023

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

Description: Construct approximately 1.0 mile of 795 ACSR 115 kV transmission line at 100°C from Demopolis TS to Cemex Tap.

Supporting
Statement: The Epes - Bellamy 115 kV TL and the Bellamy - Demopolis 115 kV TL overload under contingency. Provides additional operational and maintenance flexibility, which increases reliability.

In-Service
Year: 2023

Project Name: **EAST WATKINSVILLE - RUSSELL DAM 230 KV TRANSMISSION LINE RECONDUCTOR**

Description: Reconductor approximately 48.3 miles of 100°C 1351.5 ACSR/SD conductor, with 200°C 1351.5 ACCR conductor. Replace the Over Head Ground Wire.

Supporting
Statement: The existing self-damping conductor has reached the end of its service life. Also, the existing rating is exceeded under contingency in import scenarios.

In-Service
Year: 2023

Project Name: **FAYETTE – GOODSPRINGS 161 KV TRANSMISSION LINE**

Description: Rebuild approximately 37.0 miles of 397.5 ACSR at 100°C on the Fayette to Goodsprings 161 kV transmission line, with 795 ACSS at 200°C.

Supporting
Statement: The Fayette - Goodsprings 161 kV transmission line overloads under contingency.

In-Service
Year: 2023

Project Name: **GILLONVILLE - GREENHOUSE ROAD 115KV LINE**

Description: Construct a new 115 kV line from Greenhouse Rd to Gillionville Substation (GTC).

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

In-Service
Year: 2023

Project Name: **GORDON - NORTH DUBLIN 115 KV LINE**

Description: Rebuild approximately 19 miles of 50°C 4/0 copper conductor along the Engelhard (McIntyre) Junction - Evergreen Church (Str. # 174) sections of the Gordon - North Dublin 115KV line using 100°C 795 ACSR conductor.

Supporting
Statement: The Gordon - North Dublin 115 kV line overloads under contingency.

In-Service
Year: 2023

Project Name: **HIGHWAY 11 BROOKWOOD SOLUTION**

Description: Construct approximately 6.0 miles of 795 ACSR from Vance SS to Scott Davis DS 115 kV transmission line. Construct a new approximately 5.2 mile 115 kV transmission line from South Bessemer to Scott Davis Tap with 795 26/7 ACSR at 100°C. Construct a new approximately 4 mile 115 kV TL from Brookwood TS to Cedar Cove Tap with 795 26/7 ACSR at 100°C.

Supporting
Statement: The Vance SS - South Bessemer TS 115 kV transmission line overloads under contingency. This project also addresses voltage constraints under contingency.

In-Service
Year: 2023

Project Name: **HOPE HULL AREA SOLUTION PHASE 1**

Description: Construct approximately 1.8 miles of 795 ACSS 115 kV transmission line at 200°C between Hyundai Power Transformers to a tap point on the W. Montgomery to Pintlala 115 kV transmission line. Reconductor approximately 2.7 miles of the Hope Hull Tap to Hyundai Power Transformers 115 kV transmission line with 795 ACSS at 200°C.

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

In-Service
Year: 2023

Project Name: **JORDAN DAM - MARTIN DAM 115 KV TL (LINE B)**

Description: Reconductor approximately 21 miles of 397 ACSR with 795 ACSS at 200°C between Jordan Dam and Martin Dam 115 kV TL (Line B).

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

In-Service Year: 2023

Project Name: **MCEVER ROAD - SHOAL CREEK 115 KV TRANSMISSION LINE REBUILD - PHASE 2**

Description: Rebuild approximately 2.41 miles (2-4/0 copper) of the McEver Road - College Square section of the McEver Road - Shoal Creek 115 kV transmission line with 1033 ACSR for 100°C operation.

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

In-Service Year: 2023

Project Name: **NORTH SELMA – SELMA #2 115 KV TRANSMISSION LINE**

Description: Rebuild ~27 miles of 397 ACSR at 100 °C of Selma TS – Vida TS 115 kV TL to 795 ACSS at 200° C

Supporting Statement: The Selma TS – Vida TS 115 kV transmission line overloads under contingency.

In-Service Year: 2023

Project Name: **PALMYRA REACTOR REMOVAL**

Description: Remove reactor at Palmyra.

Supporting Statement: Permanent solution renders reactor no longer needed.

In-Service Year: 2023

Project Name: **SINCLAIR DAM - WARRENTON 115 KV RECONDUCTOR PHASE I**

Description: Reconductor approximately 17.4 miles of 4/0 CU at 50 on the Sinclair Dam - Warrenton Primary 115 kV transmission line with 100°C 795 ACSR.
Replace 4/0 CU jumpers with 1590 AAC at Buffalo Road substation.

Supporting Statement: Sinclair Dam - Warrenton Primary 115 kV line overloads under contingency.

In-Service
Year: 2023

Project Name: **SOUTH BIRMINGHAM 115 KV PROJECT**

Description: Construct a 115 kV switching station (Lakeshore SS) between Bessemer TS and Magella TS that loops in the existing Bessemer to Magella 115 kV transmission line and the North Helena to Patton Chapel 115 kV transmission line. Construct another 115 kV switching station (Massey Road SS) by expanding Massey Road DS and looping in the South Jefferson to North Helena 115 kV transmission line.

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

In-Service
Year: 2023

Project Name: **THOMSON PRIMARY - WARRENTON PRIMARY (WHITE) 115 KV LINE REBUILD**

Description: Reconductor approximately 16.8 miles of 336 ACSR at 100°C on the Thomson Primary - Warrenton Primary 115 kV (White) transmission line with 795 ACSR at 100°C.

Supporting
Statement: The Thomson Primary - Warrenton Primary line overloads under contingency.

In-Service
Year: 2024

Project Name: **AVALON JUNCTION - BIO 115 KV TRANSMISSION LINE REBUILD**

Description: Rebuild approximately 9 miles of the Avalon Junction - Bio 115 kV transmission line (636 ACSR/795 ACSR) with 100°C 1351 ACSR and replace the terminal equipment at various substations.

Supporting
Statement: The Avalon Junction - Bio 115 kV transmission line overloads under contingency in import scenarios.

In-Service
Year: 2024

Project Name: **BASSETT CREEK – THOMASVILLE 115 KV TRANSMISSION LINE**

Description: Upgrade approximately 11.3 miles of 397.5 ACSR from Bassett Creek to Thomasville 115 kV transmission line from 75°C to 100°C.

Supporting
Statement: The Bassett Creek to Thomasville 115 kV transmission line overloads under contingency.

In-Service
Year: 2024

Project Name: **DAISY - WEST VALDOSTA 230 KV TRANSMISSION LINE**

Description: Rebuild 16.5 miles of 100°C 1033 ACSR Curlew conductor along the Daisy - West Valdosta 230 kV line using 100°C 1351 ACSR Martin conductor.

Supporting
Statement: The Daisy - West Valdosta 230 kV transmission line overloads under contingency.

In-Service
Year: 2024

Project Name: **ELLCOTT SUBSTATION EXPANSION PROJECT**

Description: Relocate six existing 115 kV transmission lines to a new 115 kV substation.

Supporting
Statement: Upgrade existing and construct new transmission facilities to provide additional operational and maintenance flexibility, which increases reliability.

In-Service
Year: 2024

Project Name: **FLOMATON 230/115 KV SUBSTATION**

Description: Construct a new Flomaton 230/115 kV, 480 MVA transformer at Flomation TS and reconductor approximately 16.0 miles of 795 ACSR at 100°C from N. Brewton – Flomaton 115kV with 795 ACSS at 200°C.

Supporting
Statement: Provides additional operational and maintenance flexibility, which increases reliability. This project also provides voltage support under contingency scenarios.

In-Service
Year: 2024

Project Name: **JESUP - OFFERMAN 115 KV TRANSMISSION LINE RECONDUCTOR**

Description: Reconductor approximately 17.7 miles of 4/0 ACSR at 100°C along the Jesup - Offerman 115 kV transmission line with 795 ACSR 100°C.

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

In-Service
Year: 2024

Project Name: **JORDAN DAM - NORTH SELMA 115 KV TL RECONDUCTOR**

Description: Reconductor approximately 24 miles of 397 ACSR 115 kV TL with 795 ACSS at 200°C between Jordan Dam & Vida TS.

Supporting
Statement: The Jordan Dam - North Selma 115 kV transmission line overloads under contingency. This project also provides additional operational and maintenance flexibility which then increases reliability.

In-Service
Year: 2024

Project Name: **LAFAYETTE - ROANOKE 115 KV UPGRADE**

Description: Phase 1: Upgrade approximately 2.5 miles 397 ACSR to 100° C from City of Lafayette No. 1 to Lafayette TS.
Phase 2: Upgrade approximately 12.2 miles from Lafayette TS - Roanoke TS & ~4.5 miles Roanoke TS - East Roanoke SS 115 kV TL 397 ACSR to 125° C.

Supporting
Statement: The LaFayette to Roanoke 115 kV transmission line overloads under contingency.

In-Service
Year: 2024

Project Name: **LUCEDALE - VESTRY TAP 115 KV TRANSMISSION LINE REBUILD**

Description: Rebuild approximately 18 miles on the Lucedale - Vestry Tap 115 kV line segment with 795 ACSR at 100°C.

Supporting
Statement: The Lucedale - Vestry Tap 115 kV line overloads under contingency.

In-Service
Year: 2024

Project Name: **MITCHELL - NORTH TIFTON 230 KV RECONDUCTOR**

Description: Reconductor approximately 35.2 miles of the Mitchell - North Tifton 230 kV transmission line with 1033 ACSR at 100°C.

Supporting
Statement: The Mitchell - North Tifton 230 kV line overloads under contingency.

In-Service
Year: 2024

Project Name: **NORTH THEODORE AREA PROJECT**

Description: Construct approximately 5.3 miles of new 115 kV transmission line to the Praxair Tap from North Theodore and add a switching station near Multistate CU. Reconductor approximately 1.0 mile of the Hollinger's Island DS – Holcim CU 115 kV transmission line to 795 ACSR at 100°C.

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

In-Service
Year: 2025

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

Description: Reconductor approximately 4 miles of 795 ACSR at 100°C on the Alberta City - Holt 115 kV transmission line to 795 ACSS at 200°C.

Supporting
Statement: The Alberta City - Holt 115 kV line overloads under contingency.

In-Service
Year: 2025

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

Description: Reconductor approximately 4 miles of 795 ACSR at 100°C on the Alberta City - Holt 115 kV transmission line to 795 ACSS at 200°C.

Supporting
Statement: The Alberta City - Holt 115 kV line overloads under contingency.

In-Service
Year: 2025

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

Description: Reconductor approximately 4 miles of 795 ACSR at 100°C on the Alberta City - Holt 115 kV transmission line to 795 ACSS at 200°C.

Supporting
Statement: The Alberta City - Holt 115 kV line overloads under contingency.

In-Service
Year: 2025

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

Description: Reconductor approximately 5.0 miles of 795 ACSR at 100°C with 1033.5 ACSS at 200°C.

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

In-Service
Year: 2025

Project Name: **LITTLE OGEECHEE REDUNDANT RELAY INSTALLATION**

Description: Add a redundant relay scheme at Little Ogeechee 230 kV substation.

Supporting
Statement: The Jesup - Offerman 115 kV line overloads for a relay failure.

In-Service
Year: 2025

Project Name: **MITCHELL – NORTH TIFTON 230 KV TRANSMISSION LINE**

Description: Rebuild 35.21 miles of 100°C 795 ACSR Drake conductor along the Mitchell - North Tifton 230 kV line using 100°C 1351 ACSR Martin conductor.

Supporting
Statement: The Mitchell - North Tifton 230 kV transmission line overloads under contingency.

In-Service
Year: 2025

Project Name: **RACCOON CREEK - SCOOTER 230 KV TRANSMISSION LINE**

Description: Reconductor 8.8 miles of 100°C 1033 ACSR Curlew conductor along the Raccoon Creek- Scooter 230kV with 100°C 1351 ACSR Martin conductor.

Supporting
Statement: The Raccoon Creek - Scooter 230 kV transmission line overloads under contingency.

In-Service
Year: 2025

Project Name: **SILVERHILL TS 3RD AUTOBANK**

Description: Add 3rd 230/115 kV Autobank at Silverhill TS during infrastructure project.

Supporting
Statement: The Silverhill 230/115 kV autobank overloads under contingency.

In-Service
Year: 2026

Project Name: **BLANKETS CREEK – WOODSTOCK 115 KV TRANSMISSION LINE REBUILD**

Description: Rebuild approximately 2.5 miles of the Blankets Creek – Woodstock 115 kV transmission line with 1351 ACSR conductor at 100°C.

Supporting
Statement: The Blankets Creek – Woodstock 115 kV transmission line overloads under contingency.

In-Service
Year: 2026

Project Name: **FULLER ROAD - COLUMBUS FIRST AVE 115 KV TL RECONDUCTOR**

Description: Reconductor approximately 3 miles of 397 ACSR 115 kV TL at 100°C to 795 ACSR at 100°C from Columbus First Ave to Phenix Lumber.

Supporting
Statement: The Fuller Road - Columbus First Avenue 115 kV transmission line overloads under contingency.

In-Service
Year: 2026

Project Name: **GADSDEN – GULF STATES STEEL 115 KV TRANSMISSION LINE**

Description: (1.) Reconductor approximately 2.5 miles 397 26/7 ACSR to 795 ACSR 267/ from Gulf States Steel to Morgan’s Crossroads. (2.) Replace Gulf States Steel DS with a new 5-terminal, 4-breaker 115 kV ring bus SS across the street from the existing substation.

(3.) Rebuild Praxair DS (115/6.9 kV) and connect it to the ring via a single terminal.

Supporting
Statement: The Gulf States Steel to Morgan's Crossroads 115 kV transmission line overloads under contingency.

In-Service
Year: 2026

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

Description: Upgrade approximately 16 miles of 1351 54/19 ACSR at 100° to 125°C on the Miller - Gorgas 230 kV transmission line.

Supporting
Statement: This line overloads under contingency.

In-Service Year: 2026

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

Description: Construct a new substation at Dawes Tap on the Big Creek to N. Theodore 115 kV transmission line. Reconductor approximately 4.0 miles of 115 kV transmission line from Lott Road to Schillinger Road with 795 ACSS at 200°C. Reconductor approximately 6.3 miles of 115 kV transmission line from North Mobile to Michael Blvd with 397 ACSS at 200°C.

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

In-Service Year: 2026

Project Name: **MOSS POINT EAST – PASCAGOULA BAYOU CASOTTE 115 KV TRANSMISSION LINE**

Description: Construct approximately 2.7 miles of new 1033.5 ACSR 115 kV transmission line at 100°C from Moss Point East and connect into the existing BP Amoco to Pascagoula Bayou Cassotte 115 kV transmission line.

Supporting Statement: The Moss Point East to Pascagoula MS Chemical 115 kV transmission line overloads under contingency.

In-Service Year: 2026

Project Name: **NORTH MARIETTA – SMYRNA (BLACK & WHITE) 115 KV TRANSMISSION LINE RECONDU**

Description: Reconductor approximately 2.4 miles of the North Marietta – Lockheed Martin Tap section of the North Marietta – Smyrna Black and White 115 kV transmission lines with 657 ACSR at 100°C. (2.4 miles on each line).

Supporting Statement: The North Marietta – Smyrna Black and White 115 kV transmission lines overload under contingency.

In-Service Year: 2027
Project Name: **BARRY – WADE 230 KV TRANSMISSION LINE**
Description: Loop in the Barry – Wade 230kV TL into the Ellicott SS.
Supporting Statement: Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year: 2027
Project Name: **DAVIS STREET – FOWLER STREET 115 KV LINE**
Description: Upgrade existing 750AAC jumpers at Davis Street on the Davis Street - Fowler Street 115kV Line
Supporting Statement: The Davis Street - Fowler Street 115 kV line overloads under contingency.

In-Service Year: 2027
Project Name: **DAWSON CROSSING - NELSON (WHITE) 115 KV LINE REBUILD**
Description: Rebuild approximately 14 miles of 336 ACSR the Dawson Crossing - Nelson (White) 115 kV line from Dawson Crossing - Reavis Mountain using 100°C 795 ACSR Drake.
Supporting Statement: The Dawson Crossing - Nelson (White) 115 kV line overloads under contingency.

In-Service Year: 2027
Project Name: **ENTERPRISE TS – PINCKARD #2 115 KV TRANSMISSION LINE**
Description: Reconductor ~7.5 miles of 266 ACSR at 100 °C of the Enterprise to Daleville DS to 795 ACSR at 100° C
Supporting Statement: Provides additional operational and maintenance flexibility, which increases reliability.

In-Service
Year: 2027

Project Name: **ROCKY RIDGE RADIAL 115 KV TRANSMISSION LINE**

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

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

In-Service
Year: 2028

Project Name: **ACIPCO EAF – BOYLES 230 KV TRANSMISSION LINE**

Description: Construct approximately 3 miles of 1351 54/19 ACSR at 100°C from ACIPCO EAF to Boyles TS. Reconductor ~1.8 miles from ACIPCO TS to ACIPCO EAF from 795 ACSR to 1351 ACSR

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: **ANNISTON - CROOKED CREEK 115 KV TL**

Description: Reconductor approximately 28 miles of 397 30/7 ACSR to 795 26/7 ACSR from Golden Springs DS to Crooked Creek TS 115 kV transmission line

Supporting
Statement: The Anniston - Crooked Creek 115 kV transmission line overloads under contingency.

In-Service
Year: 2028

Project Name: **CAPITOL HEIGHTS – CARTER HILL RD 115 KV TRANSMISSION LINE**

Description: Reconductor ~2.5 miles of 556 AAC at 75°C from Capitol Heights – Carter Hill Rd to 795 ACSR at 100°C

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

In-Service
Year: 2028

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

Description: Install 500 kV series breaker between Miller – Clay 500 kV TL and Miller – East Point (TVA) TL at Miller SP

Supporting
Statement: The Boyles - Miller 230 kV transmission line and the Red Mountain - East Birmingham 115 kV TL overloads under contingency. Also Provides additional operational and maintenance flexibility, which increases reliability.

In-Service
Year: 2028

Project Name: **NELSON 230/115 KV AUTOBANK REPLACEMENT**

Description: Replace both existing 230/115 kV autotransformers at Nelson substation with two new 300 MVA 230/115 kV autotransformers.

Supporting
Statement: The existing 230/115 kV autobanks overload under contingency.

In-Service
Year: 2029

Project Name: **BESSEMER – SOUTH BESSEMER 115 KV TRANSMISSION LINE**

Description: Reconductor ~2 miles of 115 kV TL from McAdory Tap – Greenwood Tap from 397 ACSR to 795 ACSR 26/7 at 100C

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

In-Service
Year: 2030

Project Name: **ECHCONNEE - WELLSTON 115 KV LINE**

Description: Rebuild 1.2 miles of 100°C 636 ACSR conductor along the Echeconnee - Wellston 115 kV line using 100°C 1351 ACSR conductor. At South Warner Robins, replace the 1200A switches and AAC 1590 jumpers, with 2000A switches and 2-795 ACSR jumpers respectively.

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

In-Service
Year: 2030

Project Name: **JEFFERSON STREET - NORTHWEST 115 KV LINE**

Description: Reconductor approximately 1.04 miles of 75°C 1351 AAC conductor along the Jefferson Street - Northwest 115 kV line with 200°C 1351 ACSS conductor.

Supporting
Statement: The Northwest - Jefferson Street 115 kV line overloads under contingency.

In-Service
Year: 2030

Project Name: **KETTLE CREEK - PINE GROVE 115 KV TRANSMISSION LINE UPGRADE PHASE ONE**

Description: Rebuild approximately 42.2 miles of 50°C 4/0 ACSR along the Kettle Creek - Pine Grove 115 kV line, from Kettle Creek Primary to North Lakeland, using 100°C 795 ACSR conductor.

Supporting
Statement: The Kettle Creek Primary – Pine Grove 115 kV transmission line overloads under contingency.

In-Service
Year: 2030

Project Name: **PELL CITY AREA SOLUTION**

Description: Construct new Pell City Industrial Park SS and new approximately 10 mile 115 kV TL from Pell City Industrial Park SS – Jackson Shoals TS utilizing 795 26/7 ACSR @ 100°C. Convert East Pell City DS and 25th Street DS to 115 kV

Supporting
Statement: Low voltage and thermal constraints in the area under contingency. This project provides additional operational and maintenance flexibility, which increases reliability.

In-Service
Year: 2030

Project Name: **SOUTH BESSEMER 500/230 AUTOBANK**

Description: Add a second 500/230 kV autobank at South Bessemer TS

Supporting
Statement: Low voltage in the area under contingency. This project provides voltage support under contingency scenarios.

In-Service
Year: 2030

Project Name: **THOMSON PRIMARY ADD SECOND 230/115 KV BANK**

Description: Install a 2nd 300 MVA, 230/115 kV transformer at Thomson Primary.

Supporting
Statement: The Thomson Primary 230/115 kV transformer overloads under contingency.

In-Service
Year: 2030

Project Name: **UNION SPRINGS - PINCKARD 115 KV TRANSMISSION LINE**

Description: Rebuild ~8.1 miles of 397 ACSR of the Pinckard – Ewell SS 115 kV TL from 397 ACSR at 49°C to 795 ACSR at 100° C. Reconductor ~50 miles of 397 ACSR at 50 °C Union Springs – Ewell 115 kV TL to 795 ACSR at 100° C

Supporting Statement: The Union Springs - Pinckard 115 kV TL overloads under contingency. Provides additional operational and maintenance flexibility, which increases reliability.

In-Service
Year: 2031

Project Name: **ALEX CITY AREA SOLUTION**

Description: Construct new West Alex City SS and upgrade ~34 miles from Sylacauga TS to Willow Point DS 115 kV TL 397.5 30/7 ACSR at 75°C to 100°C. Construct new West Dadeville TS networking Alex City, Crooked Creek – Martin Dam No. 2, and Thweatt. Reconductor ~4.52 miles from new West Alex City SS to City of Alex City #3 with 795 45/7 ACSR at 100°C

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

In-Service
Year: 2031

Project Name: **HOPEWELL 230/115 KV AUTOBANK**

Description: Replace the 280 MVA 230/115 kV autobank at Hopewell with a 400MVA bank.

Supporting Statement: The Hopewell 230/115kV autobank A overloads under contingency.

In-Service
Year: 2031

Project Name: **NORTH BAY MINETTE AREA SOLUTION**

Description: Construct a new substation at Bay Minette Tap and upgrade approximately 12.4 miles of the Bay Minette DS to Steelwood 115 kV transmission line to 100°C.

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

PRELIMINARY

In-Service
Year: 2021

Project Name: **ATHENS, TN 161KV SUBSTATION**

Description: Upgrade bus work and terminal equipment at the Athens, TN 161 kV substation to 836 MVA.

Supporting
Statement: The terminal equipment and bus work at Athens TN 161 kV overloads under contingency.

In-Service
Year: 2021

Project Name: **COUNCE, TN 161 KV SUBSTATION**

Description: Convert Counce 161 kV switchyard to a double breaker arrangement. Loop existing Pickwick to Tri State Commerce Park 161 kV transmission line into Counce 161 kV station.

Supporting
Statement: Additional voltage support is needed in the Counce, TN area under contingency.

In-Service
Year: 2021

Project Name: **MOSCOW – CHICKASAW TRAILS 161 KV TRANSMISSION LINE**

Description: Construct the Chickasaw Trails 161 kV Substation and the Diffiee 161 kV Substation. Construct approximately 17.0 miles for new Chickasaw Trails - Moscow 161 kV transmission line with 954 ACSR at 100°C. Loop existing Miller – Holly Springs 161 kV transmission line into the Chickasaw Trails substation.

Supporting
Statement: Additional thermal capacity and voltage support is needed in the Olive Branch and Chickasaw Trails area under contingency.

In-Service
Year: 2022

Project Name: **ARTESIA - W. COLUMBUS 161 KV TRANSMISSION LINE**

Description: Construct the Artesia 161 kV Substation. Construct approximately 12.0 miles for Artesia - W. Columbus with 954 ACSS at 150°C. Reconductor approximately 15.0 miles of W. Point - Starkville 161 kV with 954 ACSS at 150°C.

Supporting
Statement: Additional thermal capacity and voltage support is needed in the West Point and Columbus area under contingency.

In-Service
Year: 2022

Project Name: **KNOX - DOUGLAS 161 KV TRANSMISSION LINE**

Description: Rebuild approximately 11.0 miles of the Knox – Douglas 161 kV transmission line with 954 ACSS at 125°C.

Supporting
Statement: The Knox – Douglas 161 kV transmission line overloads under contingency.

In-Service
Year: 2022

Project Name: **PHIPPS BEND 500 KV SUBSTATION**

Description: Rebuild structures with weathered steel in the Phipps Bend 500 and 161 kV yard.

Supporting
Statement: Steel structures in the Phipps Bend 500 kV and 161 kV yards are beginning to show signs of corrosion and will be replaced.

In-Service
Year: 2023

Project Name: **ALCOA SS – NIXON ROAD 161 KV TRANSMISSION LINE**

Description: Rebuild approximately 12.0 miles of the Alcoa North – Nixon Road 161 kV transmission line with 1590 ACSR at 100°C and construct approximately 2.0 miles of new transmission line to create the Alcoa SS – Nixon Rd 161 kV #2 transmission line.

Supporting
Statement: The Alcoa Switching Station – Nixon Road 161 kV transmission line overloads under contingency.

In-Service
Year: 2023

Project Name: **ANDERSON 500 KV SUBSTATION**

Description: Build new Anderson 500kV Substation and build Anderson 500/161 kV transformer.

Supporting
Statement: 500/161 kV transformer in the area overloads under contingency.

In-Service
Year: 2023

Project Name: **GALLATIN - CAIRO BEND 161 KV TRANSMISSION LINE**

Description: Reconductor approximately 2.2 miles of the Gallatin - Cairo Bend 161 kV transmission line section with 954 ACSS at 150°C and upgrade terminal equipment to 440 MVA at Gallatin 161 kV.

Supporting
Statement: The Gallatin FP - Cairo Bend 161 kV transmission line section overloads under contingency.

In-Service
Year: 2023

Project Name: **LIMESTONE - SEWELL 161 KV #2 TRANSMISSION LINE**

Description: Construct approximately 2.1 miles of 161 kV transmission line with 2034 ACSR at 100°C on the existing Limestone - Sewell 161 kV double circuit towers.

Supporting
Statement: Additional thermal capacity and voltage support is needed in the Huntsville, AL area under contingency.

In-Service
Year: 2023

Project Name: **WILSON - LEBANON 161 KV TRANSMISSION LINE**

Description: Rebuild approximately 6.0 miles on the Wilson - Lebanon 161 kV transmission line with 636 ACSR at 100°C and upgrade terminal equipment to 230 MVA at Lebanon 161 kV substation.

Supporting
Statement: The Wilson - Lebanon 161 kV transmission line overloads under contingency.

In-Service
Year: 2024

Project Name: **NORTH DAYTON 161 KV TRANSMISSION LINE**

Description: Construct North Dayton 161 kV substation. Loop in Sequoyah - WBHP 161 kV transmission line into new substation by constructing approximately 27.0 miles of transmission line using 1351 ACSR.

Supporting
Statement: Additional thermal capacity and voltage support is needed in the North Dayton, TN area under contingency.

In-Service
Year: 2024

Project Name: **NORTH OAKLAND - COFFEEVILLE 161 KV TRANSMISSION LINE**

Description: Construct approximately 18.0 miles of new 161 kV transmission line from North Oakland - Coffeeville using 954 ACSR at 100°C and upgrade terminal equipment to 472 MVA at Batesville 161 kV substation.

Supporting
Statement: Multiple 161 kV transmission lines overload under contingency.

In-Service
Year: 2025

Project Name: **DICKSON 161 KV AREA IMPROVEMENT**

Description: Construct approximately 19.5 miles of new 161 kV transmission line from Bon Aqua to Burns, construct approximately 4.3 miles new 161 kV double circuit into Dickson, and construct a new Locust Creek 161 kV Substation.

Supporting
Statement: Voltage support is needed in the Dickson, TN area under contingency.

In-Service
Year: 2026

Project Name: **DAVIDSON 500 KV SWITCH HOUSE**

Description: Construct a new 500 kV switch house with all new assets and replace aging assets in the Davidson Yard.

Supporting
Statement: Additional thermal capacity and voltage support is needed in the Davidson County, TN area under contingency.

In-Service
Year: 2026

Project Name: **MIDWAY - S MACON - DEKALB 161 KV TRANSMISSION LINE**

Description: Construct approximately 20 miles new 161 kV transmission line from Midway to S Macon and approximately 31.3 miles new 161 kV transmission line from S Macon to Dekalb via Scooba.

Supporting
Statement: Voltage support is needed in TVA's Mississippi area under contingency.

PRELIMINARY