

# SERTP - 2<sup>nd</sup> Quarter Meeting

## **Preliminary Expansion Plan Meeting**

June 20<sup>th</sup>, 2017 Alabama Power Company Headquarters Birmingham, AL



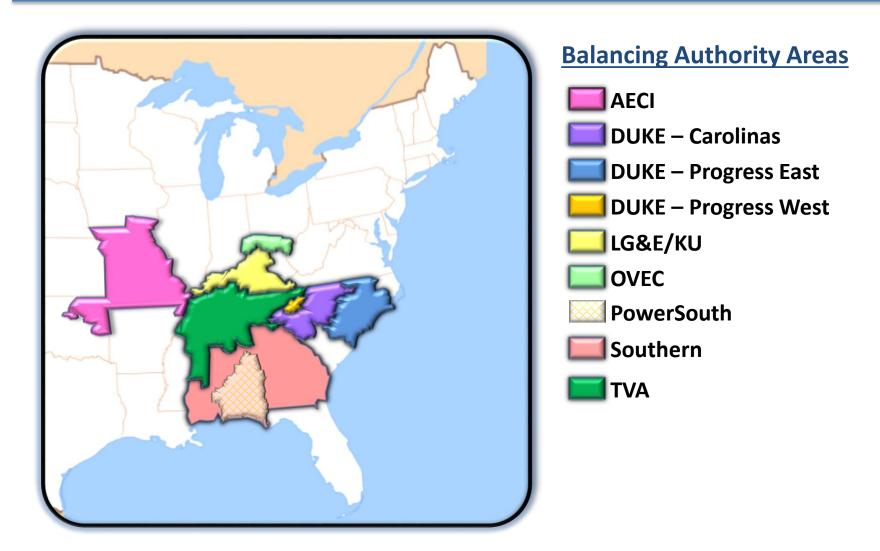
## **Process Information**

• The SERTP process is a transmission planning process.

 Please contact the respective transmission provider for questions related to real-time operations or OATT transmission service.



## **Southeastern Regional Transmission Planning (SERTP)**



# **Purposes & Goals of Meeting**

- Regional Model Assumptions
  - Expansion Plan Process
- Preliminary 10 Year Transmission Expansion Plans
  - Generation Assumptions

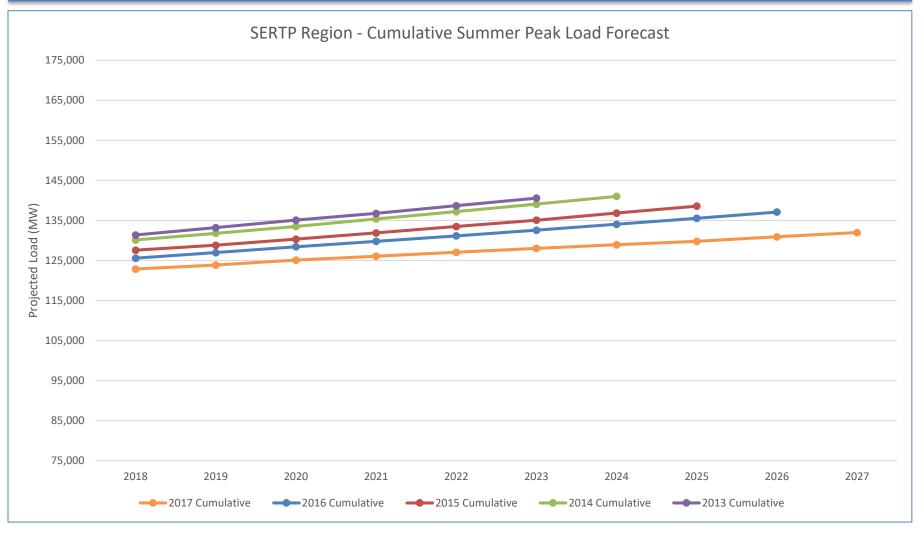
• Miscellaneous Updates

• Next Meeting Activities

2017 SERTP

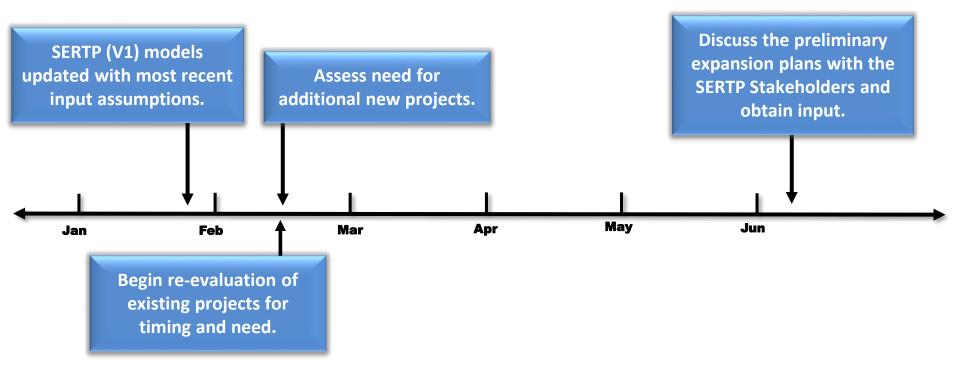
# SERTP Regional Model Assumptions

## **SERTP Cumulative Summer Peak Load Forecast**



# 2017 SERTP

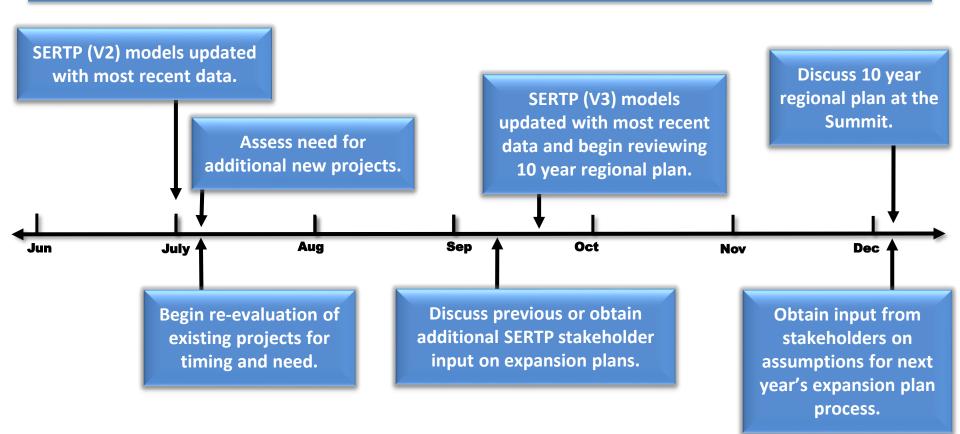
### **10 Year Regional Transmission Expansion Plan Process**



Coordination among SERTP Sponsors and neighboring entities.

# 2017 SERTP

### **10 Year Regional Transmission Expansion Plan Process**



Coordination among SERTP Sponsors and neighboring entities.

2017 SERTP

# SERTP Preliminary Transmission Expansion Plans



## **Preliminary Transmission Expansion Plans**

The projects described in this presentation represent the preliminary ten (10) year transmission expansion plans. The transmission expansion plans are periodically reviewed and may be revised due to changes in assumptions. This presentation does not represent a commitment to build for projects listed in the future.

**AECI Balancing Authority** 

# AECI Balancing Authority Generation Assumptions

\* AECI has no generation assumptions that change throughout the ten year planning horizon for the 2017 SERTP Process.

AECI Balancing Authority

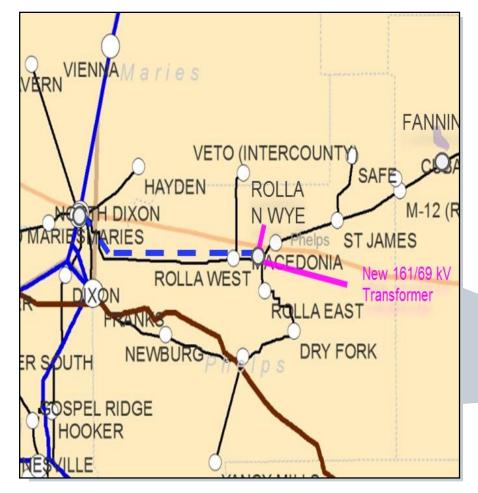
# AECI Balancing Authority Preliminary Transmission Expansion Plan

## **AECI Balancing Authority**

## **AECI – 1**

# 2018

### MARIES – ROLLA NORTH WYE 161 KV T.L. & ROLLA NORTH WYE 161 KV SUBSTATION

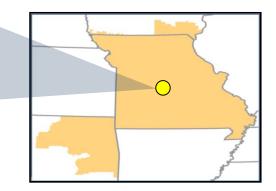


### **DESCRIPTION:**

Construct approximately 21 miles of 161 kV transmission line from Maries to Rolla North Wye with 795 ACSR at 100°C and install a 56 MVA 161/69 kV transformer at Rolla North Wye.

### SUPPORTING STATEMENT:

The Maries – Rolla North Wye transmission line overloads under contingency and additional voltage support is needed in the Maries and Rolla North Wye area under contingency.



## **AECI Balancing Authority**

## **AECI – 2**

## 2020

### WHEATON – CASSVILLE 161 KV T.L. & STELLA 345/161 KV SUBSTATION



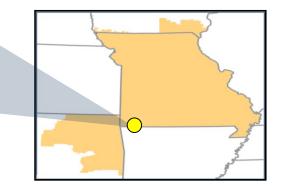
244

### **DESCRIPTION:**

Construct a 345/161 kV Substation on the Brookline – Flintcreek 345 kV transmission line. Construct approximately 15 miles of 795 ACSR 161 kV transmission line at 100°C from Wheaton – Cassville, and install a 161/69 kV transformer at Cassville.

### SUPPORTING STATEMENT:

The Neosho and Washburn 161/69 kV transformers overload under contingency.



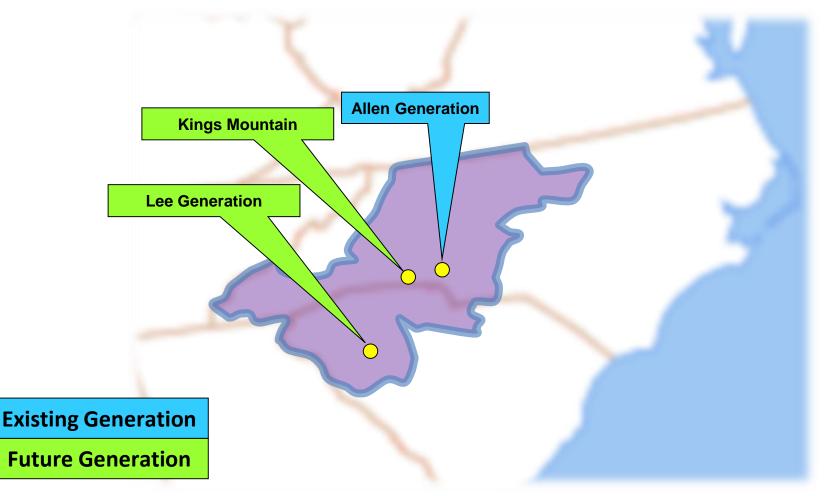
DUKE CAROLINAS Balancing Authority

# DUKE CAROLINAS Balancing Authority Generation Assumptions



## **DUKE CAROLINAS – Generation Assumptions**

The following diagram depicts the location of generation assumptions <u>that change</u> throughout the ten year planning horizon for the 2017 SERTP Process.



## **DUKE CAROLINAS – Generation Assumptions**

The following table depicts the generation assumptions <u>that change</u> throughout the ten year planning horizon for the 2017 SERTP Process. The years shown represent Summer Peak conditions.

SITE	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
LEE CC	776	776	776	776	776	776	776	776	776	776
KINGS MOUNTAIN ENERGY CENTER	452	452	452	452	452	452	452	452	452	452
ALLEN 1	174	174	174	174	174	174	174	0		
ALLEN 2	172	172	172	172	172	172	172	0		
ALLEN 3	271	271	271	271	271	271	271	0		

### **DUKE CAROLINAS – Generation Assumptions (Point-to-Point)**

The following table depicts generation assumptions based upon expected <u>long-term firm point-to-point</u> <u>commitments</u>. The years shown represent Summer Peak conditions.

SITE	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
DUKE FLEET	100	100	100	100	100	100	100	100	100	100
ROWAN	150	150	150	150	150	150	150	150	150	150
САТАШВА	155	155	155	155	155	155	155	155	155	155
BROAD RIVER	850	850	850	850	850	850	850	850	850	850

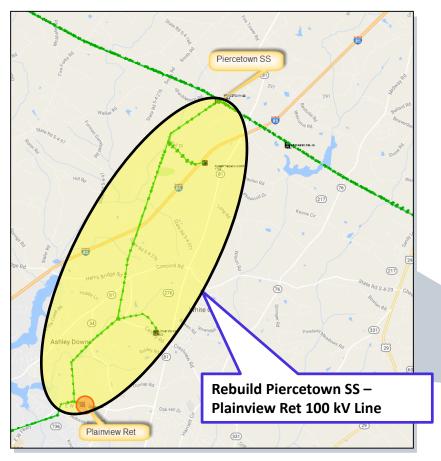
DUKE CAROLINAS Balancing Authority

# DUKE CAROLINAS Balancing Authority Preliminary Transmission Expansion Plan

## DUKE CAROLINAS – 1

# 2018

### **PIERCETOWN SS – PLAINVIEW RETAIL 100 KV T.L.**

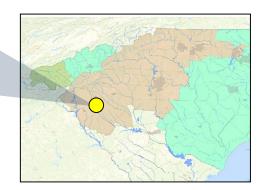


### **DESCRIPTION:**

Rebuild the Piercetown SS - Plainview Retail 100 kV transmission line into a double circuit transmission line with 954 ACSR at 120°C, and network with the Anderson Tie - Plainview Retail 100 kV transmission line.

### SUPPORTING STATEMENT:

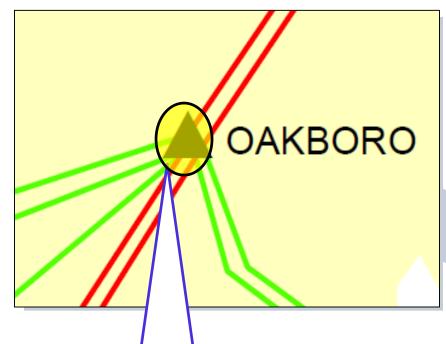
Anderson Tie - Plainview Retail 100 kV transmission line is approaching capacity. Networking the Piercetown SS -Plainview Retail 100 kV transmission line provides additional capacity to the area.



# DUKE CAROLINAS – 2

# 2018

### OAKBORO 230/100 KV TIE



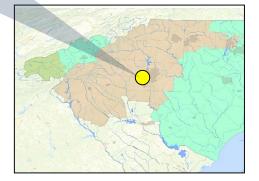
### **DESCRIPTION:**

Install a fourth 230/100 kV, 200 MVA transformer to Oakboro Substation.

#### **SUPPORTING STATEMENT:**

The Oakboro 230/100 kV transformer overloads under contingency.

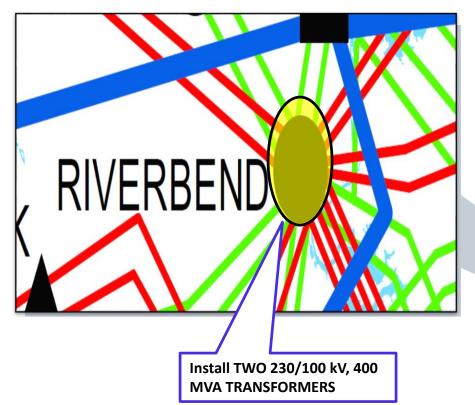
Install A FOURTH 448 MVA 230/100 KV TRANSFORMER AT OAKBORO TIE



## DUKE CAROLINAS – 3

# 2018

### **RIVERBEND STEAM STATION**

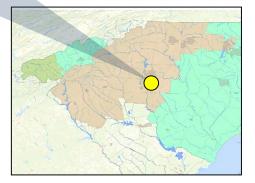


#### **DESCRIPTION:**

Install two 230/100 kV, 400 MVA transformers at Riverbend Steam Station.

### SUPPORTING STATEMENT:

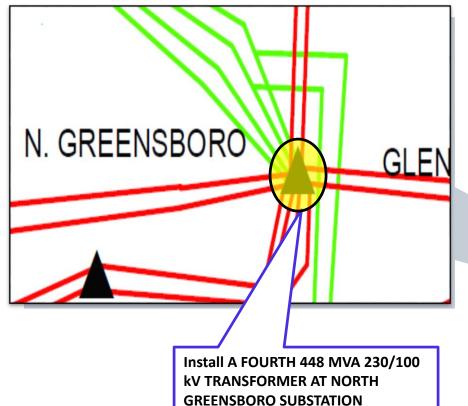
Retirement of Riverbend Steam Station generation causes multiple transmission lines to overload under contingency and causes the need for additional voltage support in the Riverbend area.



## DUKE CAROLINAS – 4

# 2018

### NORTH GREENSBORO SUBSTATION



### **DESCRIPTION:**

Install a fourth 230/100 kV, 448 MVA transformer at North Greensboro Substation.

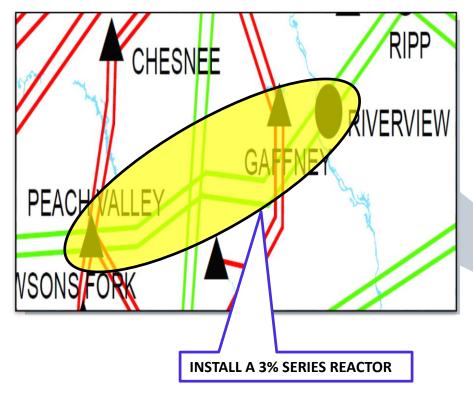
### SUPPORTING STATEMENT:

North Greensboro 230/100 kV transformer overloads under contingency.

## DUKE CAROLINAS – 5

# 2018

### PEACH VALLEY - RIVERVIEW 230 KV T.L.

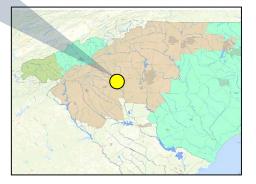


### **DESCRIPTION:**

Install a 3% series reactor on the Peach Valley – Riverview 230 kV transmission line.

### SUPPORTING STATEMENT:

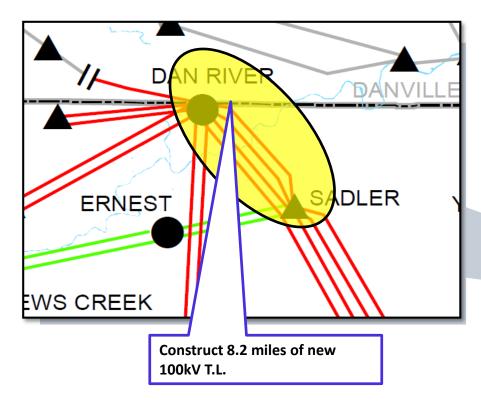
The Peach Valley – Riverview 230 kV transmission line overloads under contingency.



## DUKE CAROLINAS – 6

# 2019

### SADLER TIE – DAN RIVER 100 KV T.L.

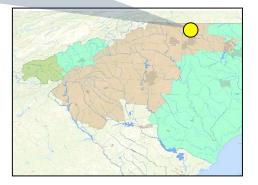


### **DESCRIPTION:**

Construct approximately 8.2 miles of new 100 kV transmission line between Dan River Combined Cycle Station and Sadler Tie with 795 ACSS at 200°C.

### SUPPORTING STATEMENT:

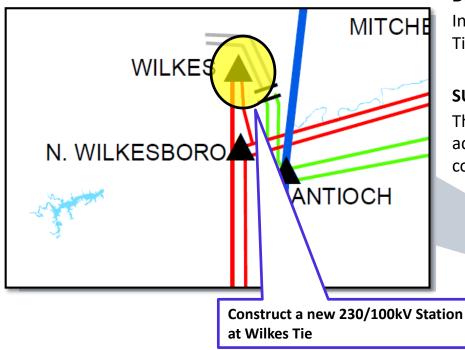
Thermal overloads occur around Dan River Steam Station and Dan River Combined Cycle Station under contingency.



## DUKE CAROLINAS – 7

## 2020

### WILKES TIE 230 KV SUBSTATION

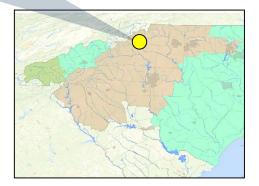


### **DESCRIPTION:**

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

### SUPPORTING STATEMENT:

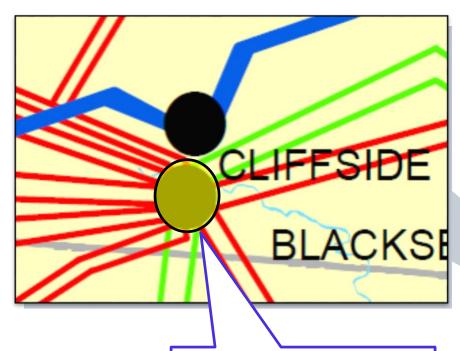
Thermal overloads occur near North Wilkesboro Tie and additional voltage support is needed in the area under contingency.



# DUKE CAROLINAS – 8

# 2020

### **CLIFFSIDE STEAM STATION**



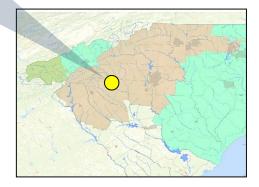
#### **DESCRIPTION:**

Install a third 230/100 kV, 448 MVA transformer at Cliffside Steam Station.

#### SUPPORTING STATEMENT:

Cliffside Steam Station 230/100 kV transformer overloads under contingency.

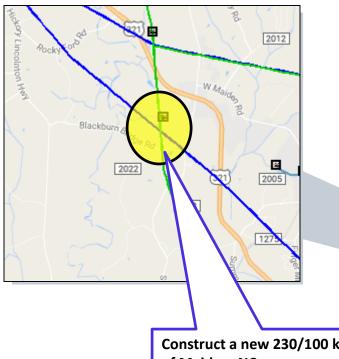
Install A THIRD 230/100 KV, 448 MVA TRANSFORMER AT CLIFFSIDE STEAM STATION



# DUKE CAROLINAS – 9

## 2020

### NEW 230/100 KV TIE, EAST OF MAIDEN NC



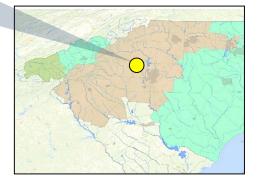
### **DESCRIPTION:**

Construct a new 230/100 kV Tie station between the Lincoln CT – Longview 230 kV double circuit lines and the Lincolnton Tie – Hickory Tie 100 kV double circuit lines

### SUPPORTING STATEMENT:

To support additional load growth in the area.

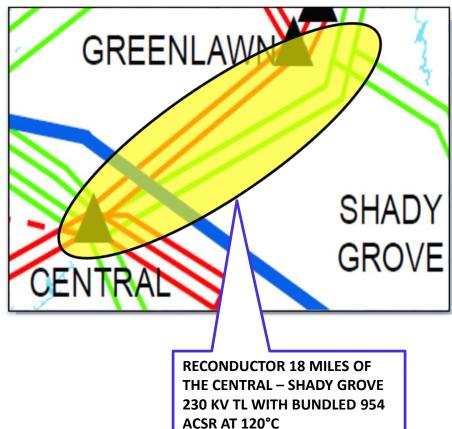
Construct a new 230/100 kV Tie East of Maiden, NC



# **DUKE CAROLINAS – 10**

# 2022

### CENTRAL – SHADY GROVE 230 KV T.L.

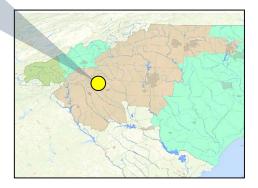


### **DESCRIPTION:**

Reconductor approximately 18 miles of the Central – Shady Grove 230 kV transmission line with bundled 954 ACSR at 120°C.

### SUPPORTING STATEMENT:

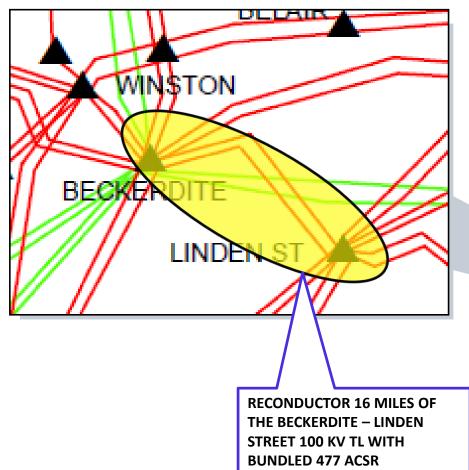
The Central – Shady Grove 230 kV transmission line overloads under contingency.



# DUKE CAROLINAS – 11

# 2023

### **BECKERDITE – LINDEN STREET 100 KV T.L.**

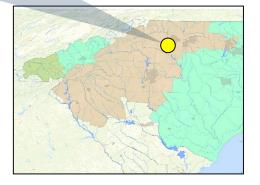


### **DESCRIPTION:**

Reconductor approximately 16 miles of the double circuit Beckerdite – Linden St 100 kV transmission line with bundled 477 ACSR.

### SUPPORTING STATEMENT:

The Beckerdite – Linden Street 100 kV transmission line overloads under contingency.



DUKE PROGRESS EAST/WEST Balancing Authorities

DUKE PROGRESS EAST/WEST

**Balancing Authorities** 

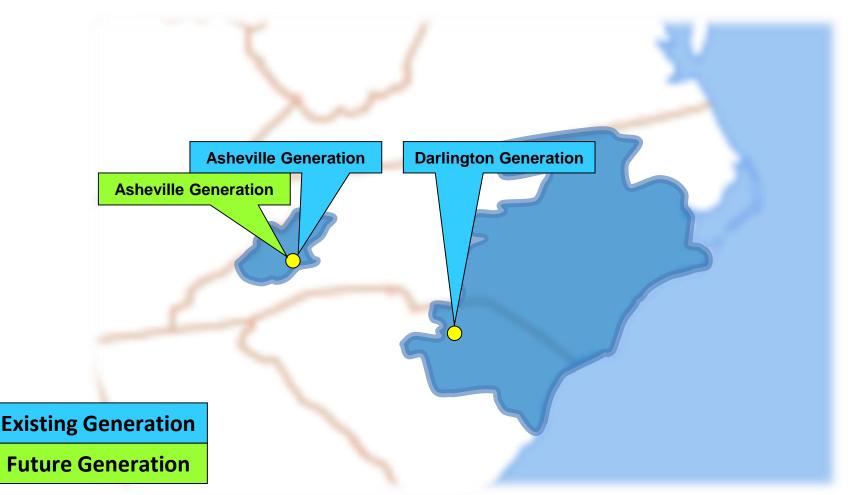
**Generation Assumptions** 



### DUKE PROGRESS EAST/WEST Balancing Authorities

## **DUKE PROGRESS – Generation Assumptions**

The following diagram depicts the location of generation assumptions <u>that change</u> throughout the ten year planning horizon for the 2017 SERTP Process.





### DUKE PROGRESS EAST/WEST Balancing Authorities

## **DUKE PROGRESS – Generation Assumptions**

The following table depicts the generation assumptions <u>that change</u> throughout the ten year planning horizon for the 2017 SERTP Process. The years shown represent Summer Peak conditions.

SITE	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
ASHEVILLE #1 COAL	191	191	0							
ASHEVILLE #2 COAL	185	185	0							
ASHEVILLE CC #1			260	260	260	260	260	260	260	260
ASHEVILLE CC #2			260	260	260	260	260	260	260	260
DARLINGTON CT #1	52	52	0							
DARLINGTON CT #2	48	48	0							
DARLINGTON CT #3	52	52	0							
DARLINGTON CT #4	50	50	0							
DARLINGTON CT #5	52	52	0							
DARLINGTON CT #6	45	45	0							



### DUKE PROGRESS EAST/WEST Balancing Authorities

# **DUKE PROGRESS – Generation Assumptions (Cont.)**

The following table depicts the generation assumptions <u>that change</u> throughout the ten year planning horizon for the 2017 SERTP Process. The years shown represent Summer Peak conditions.

SITE	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
DARLINGTON CT #7	51	51	0							
DARLINGTON CT #8	48	48	0							
DARLINGTON CT #9	52	52	0							
DARLINGTON CT #10	51	51	0							
DARLINGTON CT #11	0									

### **DUKE PROGRESS – Generation Assumptions (Point-to-Point)**

The following table depicts generation assumptions based upon expected <u>long-term firm point-to-point</u> <u>commitments</u>. The years shown represent Summer Peak conditions.

SITE	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
HAMLET #1	55	55	55	55	55	55	55	55	55	55
HAMLET #2	55	55	55	55	55	55	55	55	55	55
HAMLET #3	55	55	55	55	55	55	55	55	55	55
INGENCO	6	6	6	6	6	6	6	6	6	6

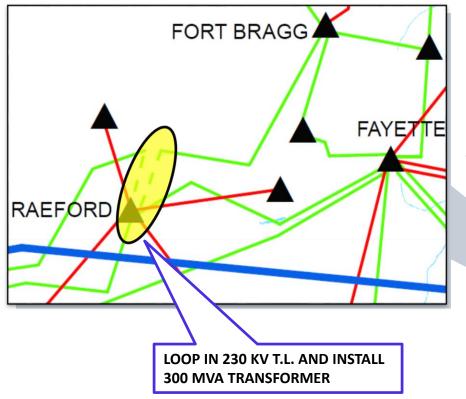
DUKE PROGRESS EAST Balancing Authority

# DUKE PROGRESS EAST Balancing Authority Preliminary Transmission Expansion Plan

## DUKE PROGRESS EAST – 1

## 2018

### **RAEFORD 230 KV SUBSTATION**

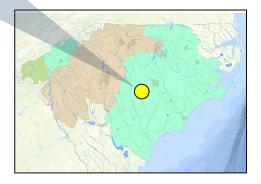


#### **DESCRIPTION:**

Loop in the Richmond – Ft. Bragg Woodruff St. 230 kV transmission line at Raeford 230/115 kV substation and install a 300 MVA transformer.

#### SUPPORTING STATEMENT:

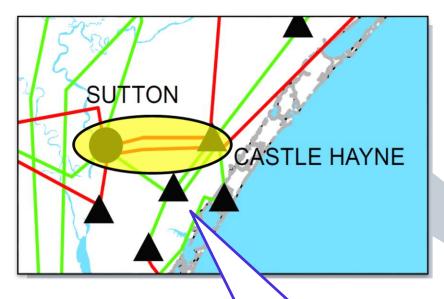
The Raeford 230/115 kV transformers and Weatherspoon – Raeford 115 kV transmission line overload under contingency.



## DUKE PROGRESS EAST – 2

## 2019

### SUTTON PLANT – CASTLE HAYNE 115 KV NORTH T.L.



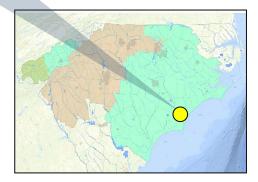
#### **DESCRIPTION:**

Rebuild approximately 8 miles of the Sutton Plant – Castle Hayne 115 kV North transmission line using 1272 ACSR rated for 239 MVA.

#### SUPPORTING STATEMENT:

The Sutton Plant – Castle Hayne 115 kV North transmission line overloads under contingency.

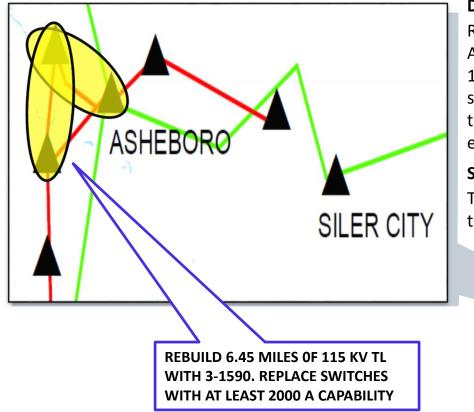
REBUILD THE SUTTON PLANT-CASTLE HAYNE 115 KV NORTH T.L.



## DUKE PROGRESS EAST – 3

## 2019

#### ASHEBORO – ASHEBORO EAST (NORTH) 115 KV T.L.

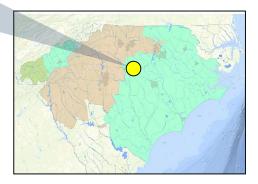


#### **DESCRIPTION:**

Rebuild approximately 6.5 miles of the Asheboro – Asheboro East (North) 115 kV transmission line using 3-1590 ACSR rated for 307 MVA. Replace disconnect switches at Asheboro 230 kV and both the breaker and the disconnect switches at Asheboro East 115 kV with equipment of at least 2000 A capability.

#### SUPPORTING STATEMENT:

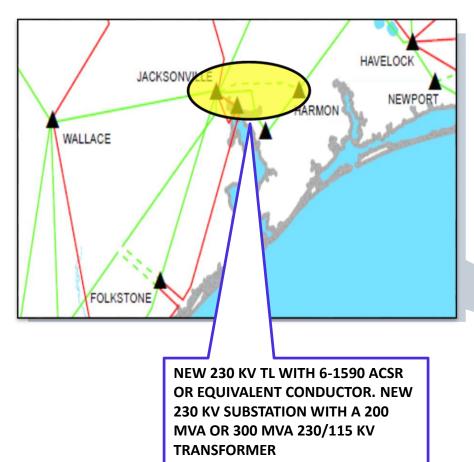
The Asheboro – Asheboro East (North) 115 kV transmission line overloads under contingency.



## DUKE PROGRESS EAST – 4

## 2020

### **GRANT'S CREEK - JACKSONVILLE 230 KV T.L.**

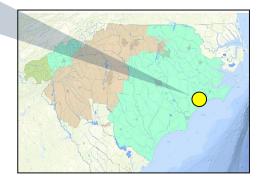


#### **DESCRIPTION:**

Construct approximately 12 miles of new 230 kV transmission line from Jacksonville 230 kV substation to a new 230 kV substation at Grant's Creek with bundled 6-1590 ACSR or equivalent conductor rated for 1195 MVA. Build the new 230 kV Grant's Creek substation with four 230 kV breakers and a new 300 MVA 230/115 kV transformer.

#### SUPPORTING STATEMENT:

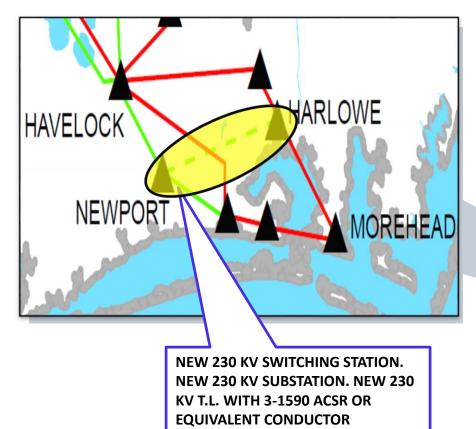
The Havelock – Jacksonville 230 kV transmission line overloads under contingency and additional voltage support is needed in the Jacksonville area.



## DUKE PROGRESS EAST – 5

## 2020

### HARLOWE – NEWPORT 230 KV T.L.

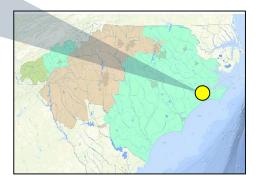


#### **DESCRIPTION:**

Construct a new 230 kV switching station at Newport, construct a new 230 kV substation in the Harlowe Area, and construct approximately 10 miles of new 230 kV transmission line from the Harlowe – Newport with 3-1590 ACSR or equivalent conductor rated for 680 MVA.

#### SUPPORTING STATEMENT:

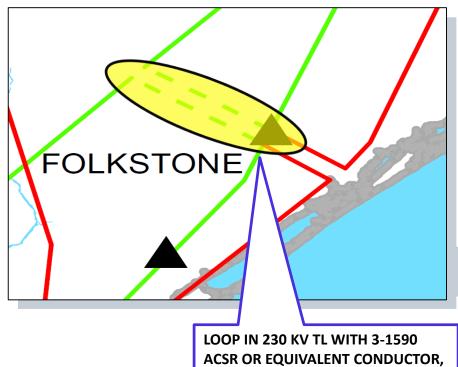
Additional voltage support is needed in Havelock – Morehead area under contingency.



## **DUKE PROGRESS EAST – 6**

## 2024

### BRUNSWICK #1 – JACKSONVILLE 230 KV T.L.



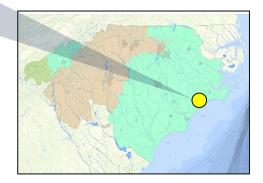
#### **DESCRIPTION:**

Loop 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.

**APPROXIMATELY 5 MILES.** 

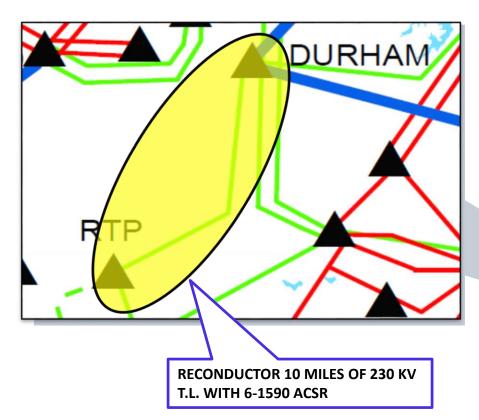




## DUKE PROGRESS EAST – 7

## 2025

#### DURHAM – RTP 230 KV T.L.

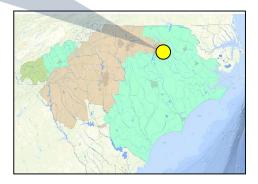


#### **DESCRIPTION:**

Reconductor approximately 10 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.



DUKE PROGRESS WEST Balancing Authority

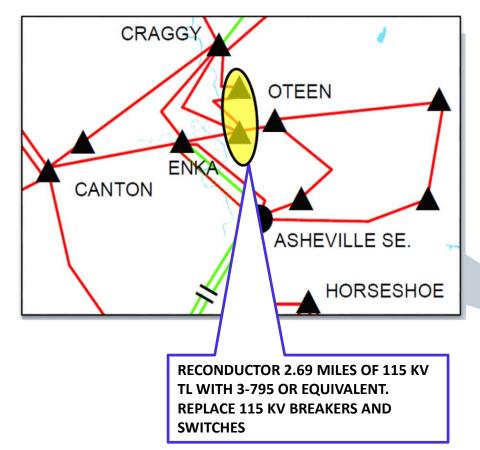
# DUKE PROGRESS WEST Balancing Authority Preliminary Transmission Expansion Plan

### DUKE PROGRESS WEST Balancing Authority

## DUKE PROGRESS WEST – 1

## 2018

### VANDERBILT – WEST ASHEVILLE 115 KV T.L.



#### **DESCRIPTION:**

Reconductor approximately 2.7 miles of the Vanderbilt – West Asheville 115 kV transmission line with 3-795 ACSR rated for 300 MVA. Replace one 115 kV breaker, two 115 kV disconnect switches, and one 115 kV switch at Vanderbilt.

#### SUPPORTING STATEMENT:

The Vanderbilt – West Asheville 115 kV transmission line overloads under contingency.

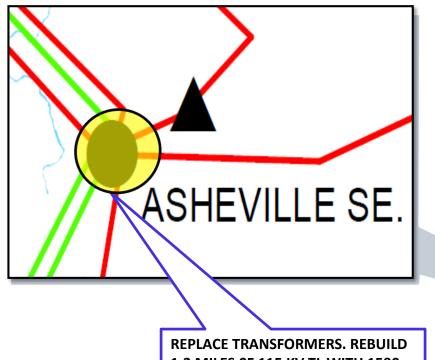


### DUKE PROGRESS WEST Balancing Authority

## DUKE PROGRESS WEST – 2

## 2019

### **ASHEVILLE SE PLANT**



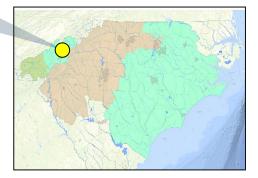
#### **DESCRIPTION:**

Upgrade the two existing 230/115 kV transformers to 400 MVA each, reconductor approximately 1.2 miles of the 115 kV north and south transformer tie lines with 1590 ACSR at 100°C, replace the existing breakers with 3000 A breakers, and install a 72 MVAR 230 kV capacitor bank.

#### SUPPORTING STATEMENT:

Necessary upgrades to allow for the interconnection of two combined cycle units at Asheville Plant.

REPLACE TRANSFORMERS. REBUILD 1.2 MILES OF 115 KV TL WITH 1590 ACSR. REPLACE BREAKERS WITH 3000 A BREAKERS. INSTALL 72 MVAR CAPACITOR BANK.

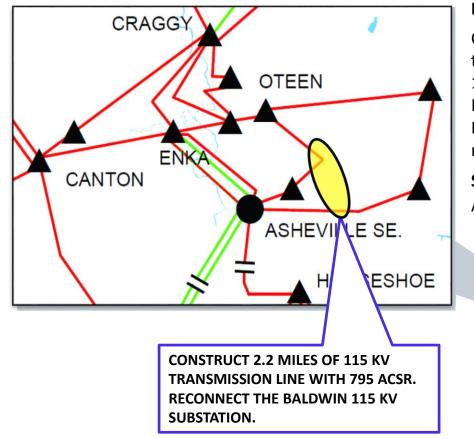


### DUKE PROGRESS WEST Balancing Authority

## DUKE PROGRESS WEST – 3

## 2022

### ASHEVILLE PLANT – OTEEN WEST 115 KV T.L., BALDWIN TAP

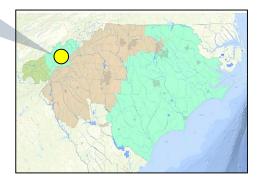


#### **DESCRIPTION:**

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.



LG&E/KU Balancing Authority

# LG&E/KU Balancing Authority Generation Assumptions

\* LG&E/KU has no generation assumptions that change throughout the ten year planning horizon for the 2017 SERTP Process.

### LG&E/KU – Generation Assumptions (Point-to-Point)

The following table depicts generation assumptions based upon expected <u>long-term firm point-to-point</u> <u>commitments</u>. The years shown represent Summer Peak conditions.

SITE	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
TRIMBLE COUNTY	324	324	324	324	324	324	324	324	324	324

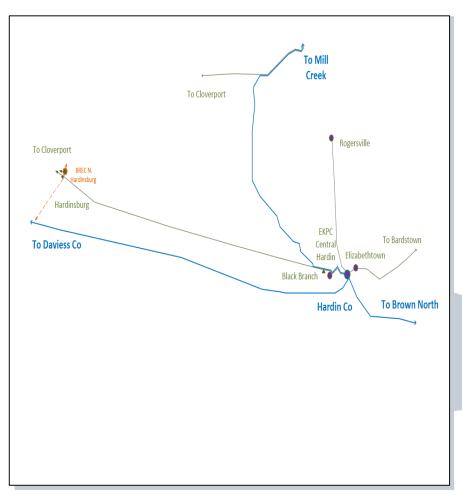
LG&E/KU Balancing Authority

# LG&E/KU Balancing Authority Preliminary Transmission Expansion Plan

## LG&E/KU – 1

## 2018

### HARDINSBURG – BLACK BRANK 138 KV T.L.

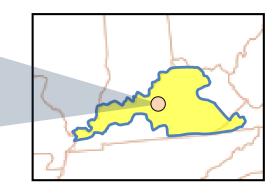


#### **DESCRIPTION:**

Replace 138 kV terminal equipment, rated less than or equal to 237 MVA, on the Hardinsburg - Black Branch 138 kV transmission line with equipment capable of a minimum of 265 MVA summer emergency rating.

#### SUPPORTING STATEMENT:

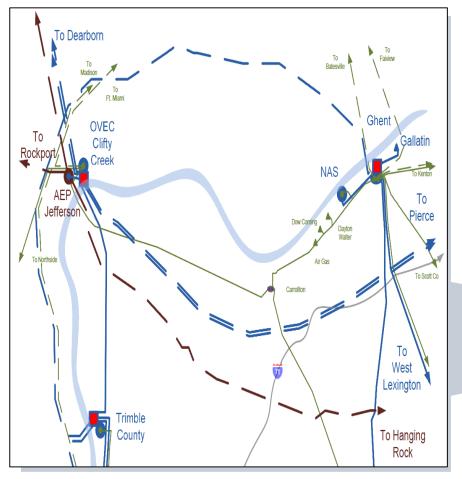
The Hardinsburg – Black Branch 138 kV transmission line becomes overloaded under contingency.



## LG&E/KU – 2

## 2019

### GHENT – FAIRVIEW 138 KV T.L.

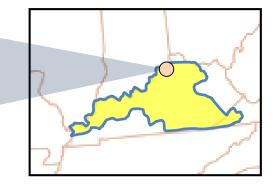


#### **DESCRIPTION:**

Upgrade approximately 3.29 miles of the Ghent -Fairview 138 kV transmission line from 90°C to 100°C.

#### SUPPORTING STATEMENT:

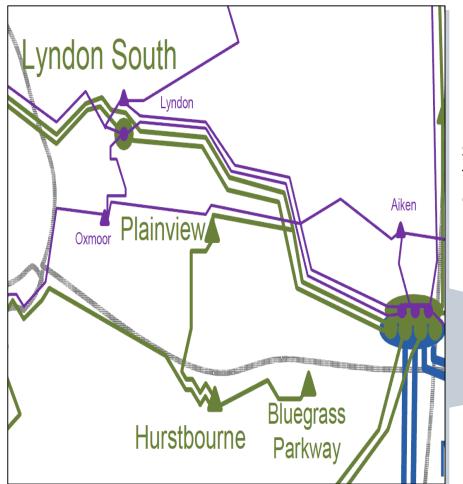
The Ghent - Fairview 138 kV transmission line overloads under contingency.



## LG&E/KU – 3

## 2021

### PLAINVIEW – PLAINVIEW TAP 138 KV T.L.

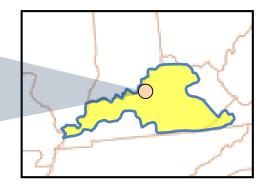


#### **DESCRIPTION:**

Replace approximately 1.57 miles of 1272 AA conductor in the Plainview - Plainview Tap section of the Middletown to Beargrass 138 kV transmission line with 1272 ACSR capable of at least 341 MVA.

#### SUPPORTING STATEMENT:

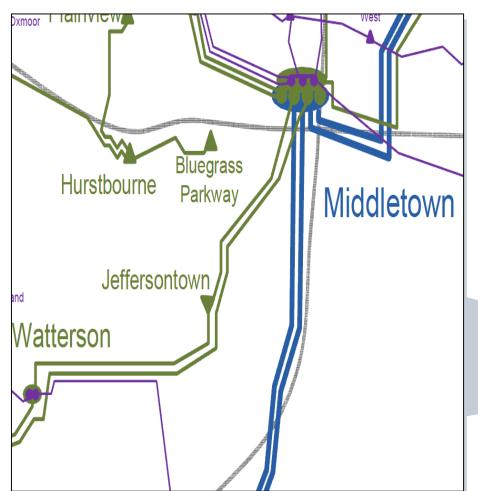
The Plainview – Plainview Tap 138 kV transmission line overloads under contingency.



## LG&E/KU – 4

## 2021

### WATTERSON - JEFFERSON TAP 138 KV T.L.

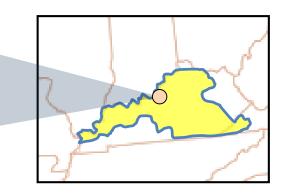


#### **DESCRIPTION:**

Replace 138 kV terminal equipment rated less than or equal to 306 MVA summer emergency ratings at Watterson on the Watterson – Jefferson 138 kV line with equipment capable of a minimum of 341 MVA summer emergency rating.

#### SUPPORTING STATEMENT:

The Watterson – Jefferson Tap 138 kV transmission line overloads under contingency.



## **OVEC Balancing Authority**

# Preliminary Transmission Expansion Plan & Generation Assumptions

\* OVEC has no transmission projects included in the 2017 SERTP Preliminary Transmission Expansion Plan. In addition, OVEC has no generation assumptions expected to change throughout the ten year planning horizon for the 2017 SERTP Process.

POWERSOUTH Balancing Authority

# POWERSOUTH Balancing Authority Generation Assumptions

\* POWERSOUTH has no generation assumptions expected to change throughout the ten year planning horizon for the 2017 SERTP Process.

POWERSOUTH Balancing Authority

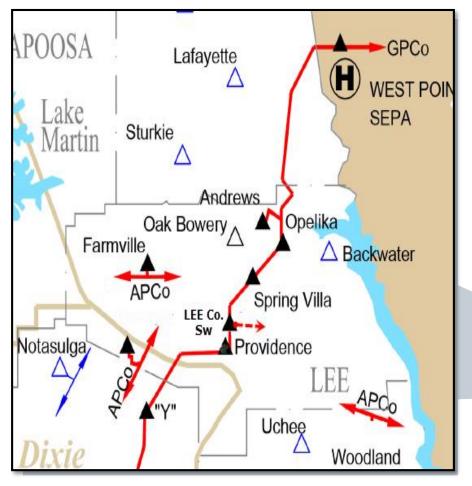
# POWERSOUTH Balancing Authority Preliminary Transmission Expansion Plan

### **POWERSOUTH Balancing Authority**

## POWERSOUTH – 1

## 2018

### LEE CO. 115 KV SWITCHING STATION

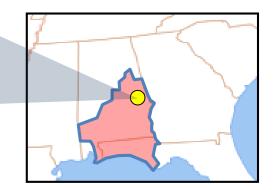


#### **DESCRIPTION:**

Construct a new 115 kV switching station that taps the existing Dublin – West Point 115 kV transmission line to facilitate the Lee County – Fuller Road 115 kV transmission line.

#### SUPPORTING STATEMENT:

Additional voltage support is needed on the Dublin – West Point 115 kV transmission line under contingency.

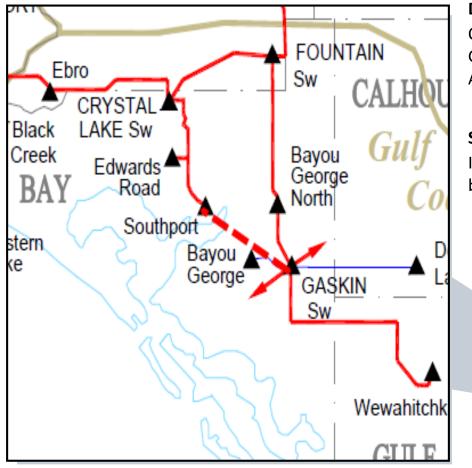


### POWERSOUTH Balancing Authority

### POWERSOUTH – 2

## 2018

### GASKIN – SOUTHPORT 115 KV T.L.

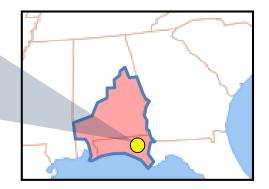


#### **DESCRIPTION:**

Construct 9 miles of new 115 kV transmission line from Gaskin Switching Station – 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.



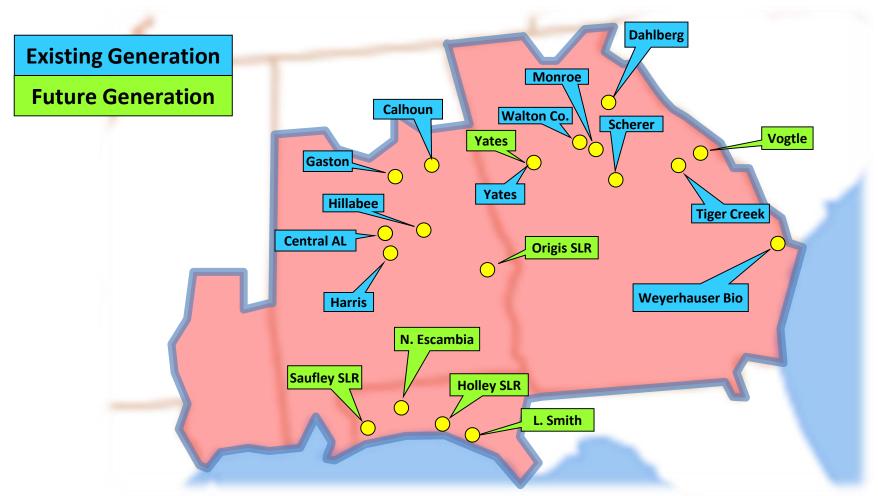
SOUTHERN Balancing Authority

# SOUTHERN Balancing Authority 2017 Generation Assumptions



## **SOUTHERN – Generation Assumptions**

The following diagram depicts the location of generation assumptions <u>that change</u> throughout the ten year planning horizon for the 2017 SERTP Process.



## **Southern Company – Generation Assumptions**

SITE	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
CALHOUN 1-4	632	632	632	632	632	0				
CENTRAL ALABAMA	885	885	885	885	885	0				
DAHLBERG 2, 6, 8, 10	298	298	298	298	298	298	298	0		
GASTON 1-4	979	979	979	979	979	979	1029	1029	1029	1029
HARRIS 2	649	0								
HOLLEY SOLAR	40	40	40	40	40	40	40	40	40	40
MONROE	309	309	309	309	309	309	0			
ORIGIS SOLAR	80	80	80	80	80	80	80	80	80	80
SAUFLEY SOLAR	50	50	50	50	50	50	50	50	50	50
SCHERER 3	688	688	765	765	765	765	765	765	765	765

## **Southern Company – Generation Assumptions**

SITE	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
TIGER CREEK 1&4	313	313	313	313	313	313	0			
VOGTLE 3			504	504	504	504	504	504	504	504
VOGTLE 4			504	504	504	504	504	504	504	504
WALTON COUNTY	436	436	436	436	436	436	0			
WEYERHAUSER PW BIOMASS	20	20	20	20	20	20	20	20	20	0
YATES 6-7	649	649	649	649	649	649	714	714	714	714

### **Southern Company – Generation Assumptions**

SITE	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
LANSING SMITH <sup>1</sup>						230	230	230	230	230
NORTH ESCAMBIA <sup>1</sup>						460	460	460	460	460
YATES <sup>1</sup>								1200	1200	1200

<sup>(1)</sup> This assumption may be modified as resource decisions are made by the corresponding LSEs pursuant to applicable regulatory processes.

### **Southern Company – Generation Assumptions (Point-to-Point)**

The following table depicts generation assumptions based upon expected <u>long-term firm point-to-point</u> <u>commitments</u>. The years shown represent Summer Peak conditions.

SITE	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
VOGTLE	206	206	206	206	206	206	206	206	206	206
LINDSAY HILL	300	300	300	300	300	300	300	300	300	300
HAMMOND	10	10	10	10	10	10	10	10	10	10
HILLABEE	350	350	350	350	350	350	350	350	350	350
FRANKLIN	424	424	424	424	424	424	424	424	424	424
SCHERER	911	911	911	911	911	911	911	911	911	911
DAHLBERG	494	494	494	494	494	494	494	494	494	494
BOWEN	159	159	159	159	159	159	159	159	159	159

### **GTC – Generation Assumptions**

SITE	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
SCHERER 3	132	132	56	56	56	56	56	56	56	56
VOGTLE 3			330	330	330	330	330	330	330	330
VOGTLE 4			330	330	330	330	330	330	330	330

## **MEAG – Generation Assumptions**

SITE	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
VOGTLE 3			250	250	250	250	250	250	250	250
VOGTLE 4			250	250	250	250	250	250	250	250

## **DALTON – Generation Assumptions**

SITE	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
VOGTLE 3			19	19	19	19	19	19	19	19
VOGTLE 4			19	19	19	19	19	19	19	19

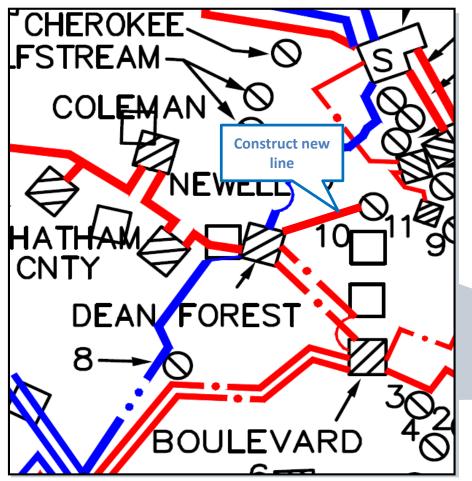
SOUTHERN Balancing Authority

# SOUTHERN Balancing Authority Preliminary Transmission Expansion Plan

## SOUTHERN – 1E

## 2018

#### **DEAN FOREST – MILLHAVEN ANNEX 115 KV T.L.**

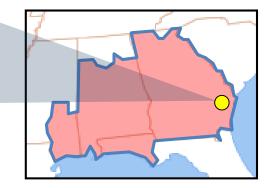


#### **DESCRIPTION:**

Construct approximately 5.3 miles of 795 ACSR 115 kV transmission line from Dean Forest to Millhaven Annex at 100°C operation.

#### SUPPORTING STATEMENT:

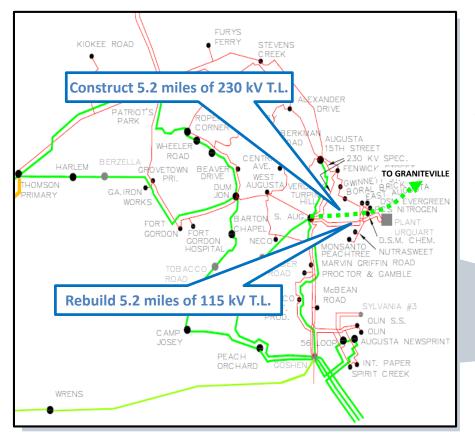
Additional voltage support is needed in the Millhaven area under contingency.



## SOUTHERN – 2E

## 2019

#### SOUTH AUGUSTA – GRANITEVILLE, SC 115 & 230 KV T.L.

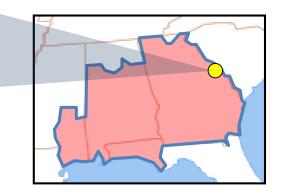


#### **DESCRIPTION:**

Construct a new 5.2 mile 230 kV tie – line from the South Augusta 230/115 kV substation to the GA/SC state line with bundled 1351 ACSR at 100°C. Also, rebuild 4.2 miles of the existing South Augusta – Elanco 115 kV transmission line from S. Augusta to the Nutrasweet Junction, and rebuild 1.0 mile of the Nutrasweet Junction transmission line to the GA/SC state line with 1351 ACSR at 100°C.

#### SUPPORTING STATEMENT:

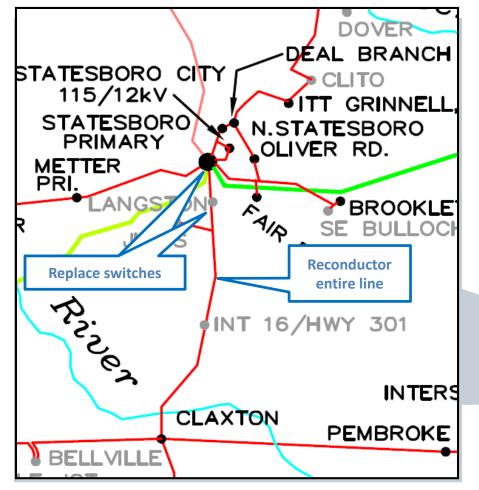
The Savannah River (SCE&G) – Vogtle 230 kV tie – line and multiple other transmission facilities on the SCE&G system overload under contingency.



## SOUTHERN – 3E

## 2019

#### **CLAXTON – STATESBORO PRIMARY 115 KV T.L.**

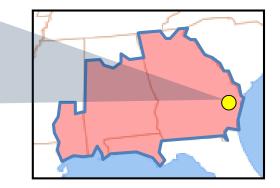


#### **DESCRIPTION:**

Reconductor approximately 17.8 miles along the Claxton – Statesboro Primary 115 kV transmission line with 795 ACSR at 100°C. Replace 600 A switches at Langston and Statesboro with 2000 A switches.

#### SUPPORTING STATEMENT:

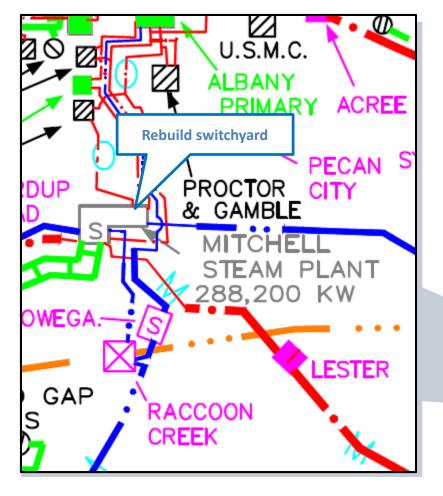
The Claxton – Statesboro 115 kV transmission line overloads under contingency.



## SOUTHERN – 4E

# 2019

### **MITCHELL 230 KV REBUILD**

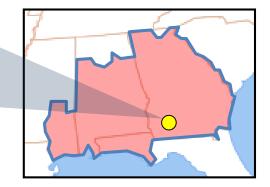


### **DESCRIPTION:**

Rebuild of the Plant Mitchell switchyard to allow the spare transformer and the new transformer to both be in-service.

#### SUPPORTING STATEMENT:

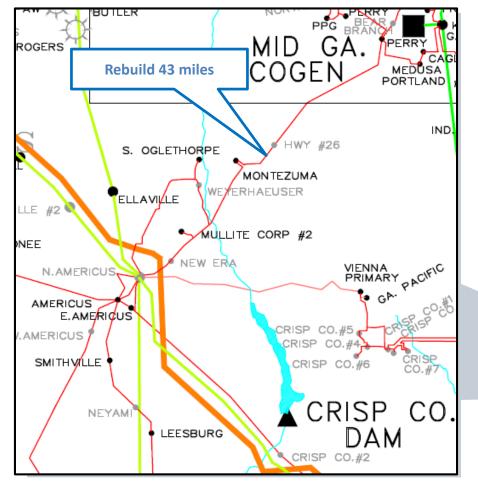
Additional voltage support is needed in the Albany area under contingency.



# SOUTHERN – 5E

# 2020

### NORTH AMERICUS – PERRY 115 KV T.L.

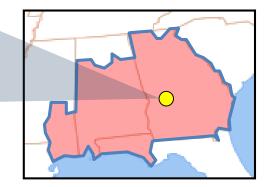


### **DESCRIPTION:**

Rebuild approximately 43 miles of the existing 115 kV transmission line from North Americus to Perry substation with 795 ACSR at 100°C.

### SUPPORTING STATEMENT:

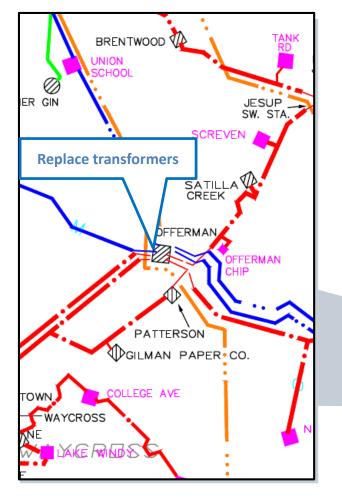
The North Americus – Perry 115 kV transmission line overloads under contingency.



## SOUTHERN – 6E

# 2020

### **OFFERMAN 230/115 KV SUBSTATION**

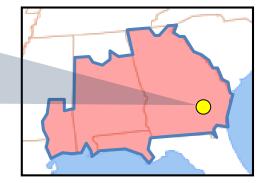


#### **DESCRIPTION:**

Replace the existing 140 MVA, 230/115 kV transformers with two 280-300 MVA, 230/115 kV transformers.

#### SUPPORTING STATEMENT:

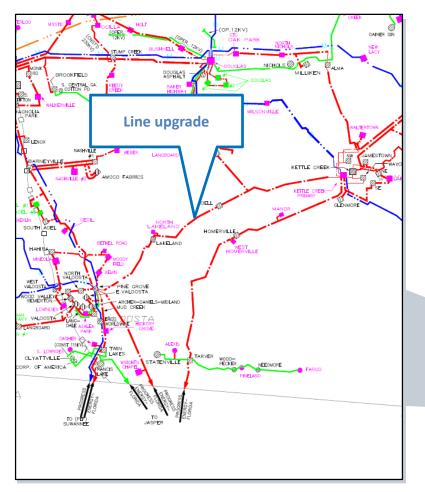
The Offerman 230/115 kV transformers overload under contingency.



## SOUTHERN – 7E

# 2020

### **KETTLE CREEK PRIMARY – PINE GROVE PRIMARY 115 KV T.L.**

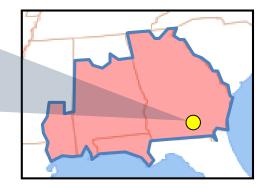


### **DESCRIPTION:**

Upgrade approximately 20 miles along the Kettle Creek – Pine Grove 115 kV transmission line from 50°C to 75°C operation.

### SUPPORTING STATEMENT:

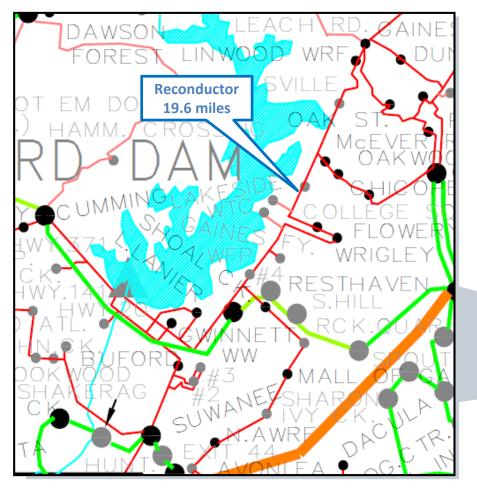
The Kettle Creek Primary – Pine Grove 115 kV transmission line overloads under contingency.



## SOUTHERN – 8E

# 2023

### MCEVER ROAD – SHOAL CREEK 115 KV T.L.

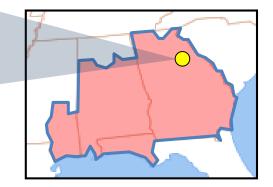


### **DESCRIPTION:**

Rebuild approximately 16.2 miles of the McEver Road -Shoal Creek 115 kV transmission line with 1033 ACSR at 100°C.

### SUPPORTING STATEMENT:

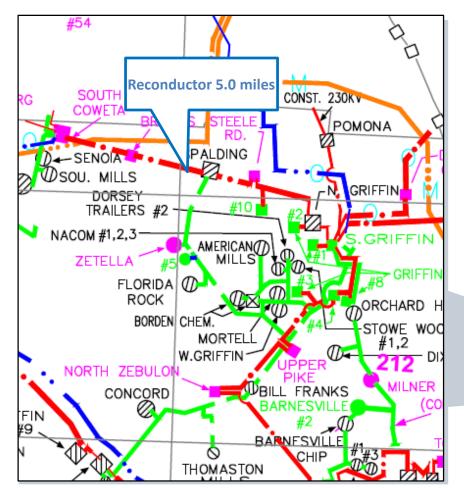
The McEver Road - Shoal Creek 115 kV transmission line overloads under contingency.



## SOUTHERN – 9E

# 2023

### SOUTH COWETA – SOUTH GRIFFIN 115 KV T.L.

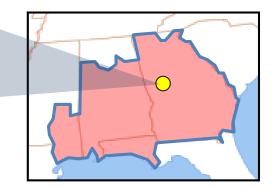


### **DESCRIPTION:**

Reconductor approximately 5 miles of 115 kV transmission line along the South Coweta – Brooks section of the South Coweta – South Griffin 115 kV transmission line with 1033 ACSR at 100°C.

### SUPPORTING STATEMENT:

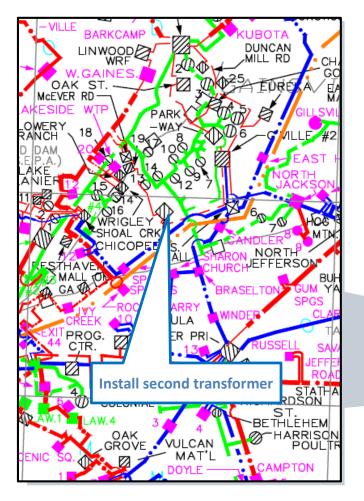
The South Coweta – Brooks section of the South Coweta – South Griffin 115 kV transmission line overloads under contingency.



# **SOUTHERN – 10E**

## 2025

### SOUTH HALL 500/230 KV 2<sup>ND</sup> TRANSFORMER

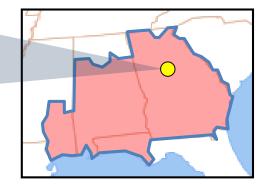


#### **DESCRIPTION:**

Install a second 500/230 kV, 2016 MVA transformer at the South Hall 500/230 kV substation.

#### SUPPORTING STATEMENT:

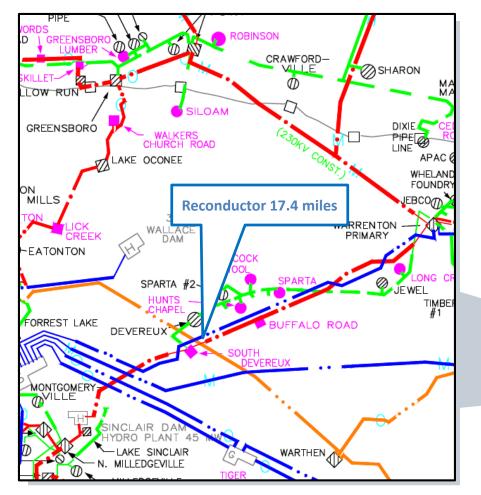
The Cumming - McGrau Ford 230 kV transmission line and the Lawrenceville - Norcross 230 kV transmission line overload under contingency.



## SOUTHERN – 11E

# 2025

### SINCLAIR DAM – WARRENTON 115 KV T.L.

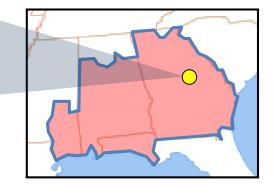


### **DESCRIPTION:**

Reconductor approximately 17.4 miles of 115 kV transmission line along the Sinclair Dam – Warrenton 115 kV transmission line with 795 ACSR at 100°C.

### SUPPORTING STATEMENT:

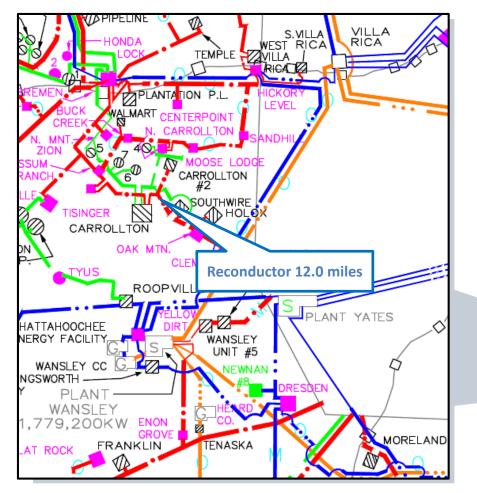
The Sinclair Dam – Warrenton 115 kV transmission line overloads under contingency.



# SOUTHERN – 12E

# 2025

### POSSUM BRANCH – YATES 115 KV T.L.

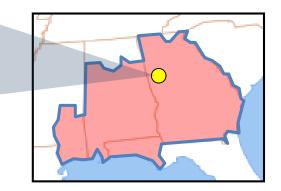


### **DESCRIPTION:**

Reconductor approximately 12 miles of the Possum Branch – Yates 115 kV transmission line with 1351 ACSR conductor at 100°C. Upgrade jumpers and bus at Southwire.

### SUPPORTING STATEMENT:

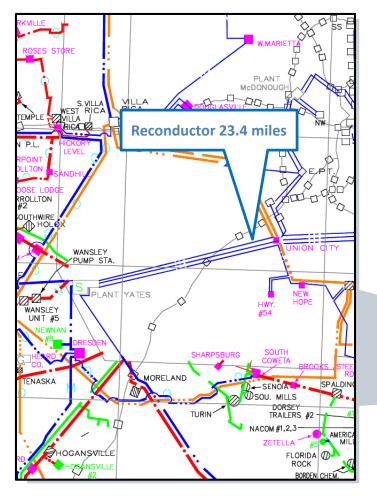
The Possum Branch – Yates 115 kV line overloads under contingency.



# SOUTHERN – 13E

# 2025

### **UNION CITY - YATES 230 KV WHITE LINE RECONDUCTOR**

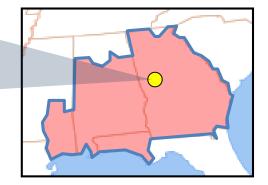


### **DESCRIPTION:**

Reconductor approximately 23 miles along the Union City to Plant Yates 230 kV transmission line with 1033 ACSS at 160°C.

### SUPPORTING STATEMENT:

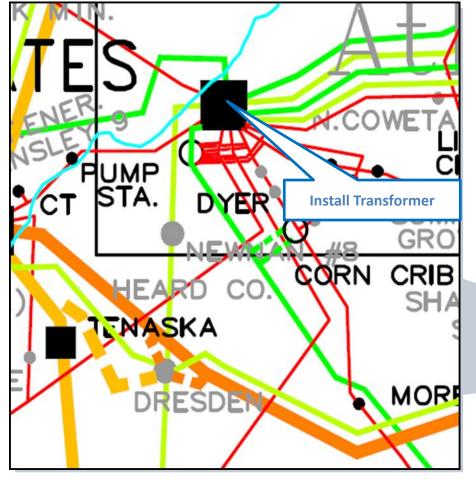
The Union City - Yates 230 kV transmission line overloads under contingency.



# SOUTHERN – 14E

# 2025

### DYER ROAD 230/115 KV SUBSTATION

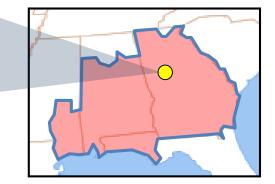


#### **DESCRIPTION:**

Install a second 230/115 kV, 400 MVA transformer at Dyer Road.

### SUPPORTING STATEMENT:

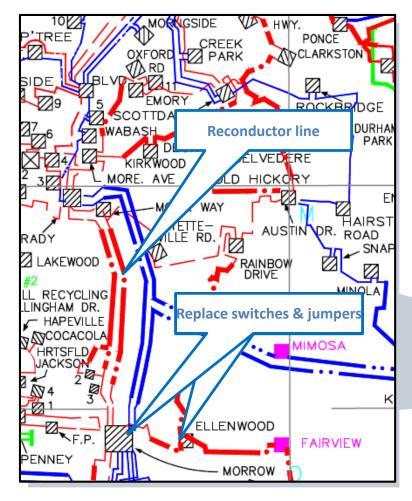
The existing Corn Crib 230/115 kV transformer overloads under contingency.



# SOUTHERN – 15E

# 2025

### **AUSTIN DRIVE - MORROW 115 KV RECONDUCTOR**

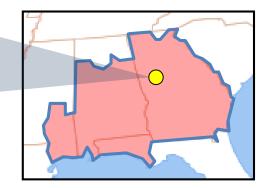


### **DESCRIPTION:**

Reconductor approximately 5.2 miles along the Morrow -Ellenwood and the Rainbow Drive - River Road 115 kV transmission line sections of the Austin Drive - Morrow 115 kV line to 200°C operation. Replace switches and/or jumpers as necessary at Ellenwood and Morrow.

### SUPPORTING STATEMENT:

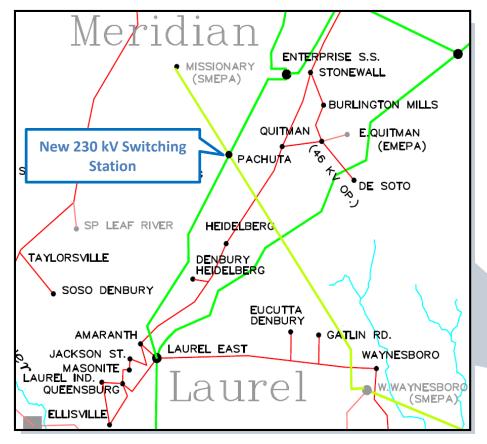
The Austin Drive - Morrow 115 kV transmission line overloads under contingency.



## SOUTHERN – 1W

# 2018

### JASPER EAST – MISSIONARY (SMEPA) 230 KV T.L.

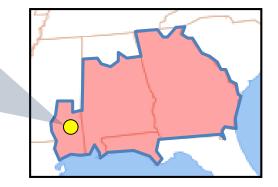


### **DESCRIPTION:**

Tap the Missionary – Waynesboro 161 kV transmission line at the intersection of the Enterprise – Laurel East 230 kV transmission line. Construct a four (4) breaker 230 kV ring bus in Jasper County, MS.

### SUPPORTING STATEMENT:

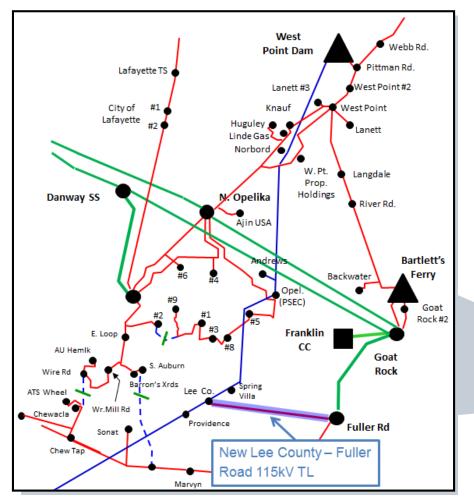
The project provides additional voltage support needed in the area.



## SOUTHERN – 2W

# 2018

### FULLER ROAD – LEE COUNTY (POWER SOUTH) 115 KV T.L.

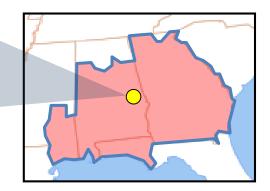


### **DESCRIPTION:**

Construct approximately 13 miles of new 795 ACSR at 100°C 115 kV transmission line from Fuller Road (APC) to Lee County (PowerSouth).

#### **SUPPORTING STATEMENT:**

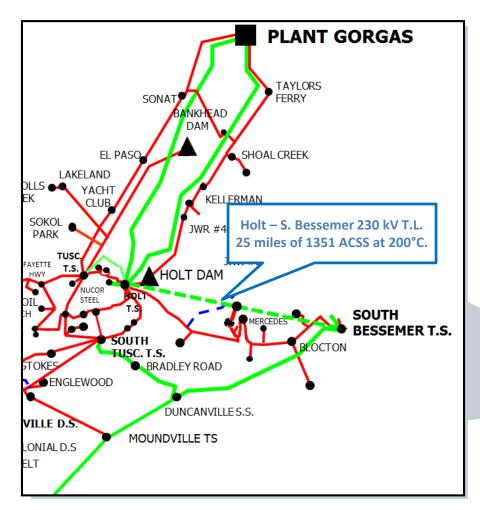
The new Fuller Rd – Lee County 115 kV transmission line will provide greater maintenance flexibility on the N. Opelika TS – Lanett DS 115 kV corridor and reduces high loadings on the Knauff Fiberglass – N. Opelika 115 kV transmission line.



## SOUTHERN – 3W

# 2018

### HOLT – SOUTH BESSEMER 230 KV T.L.

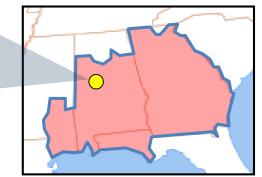


### **DESCRIPTION:**

- Construct approximately 25 miles of 1351 ACSS 230 kV transmission line at 200°C from Holt to South Bessemer.
- Install a 400 MVA, 230/115 kV transformer and connect to existing Daimler DS.
- Install new 115 kV switching station around Daimler DS.

### SUPPORTING STATEMENT:

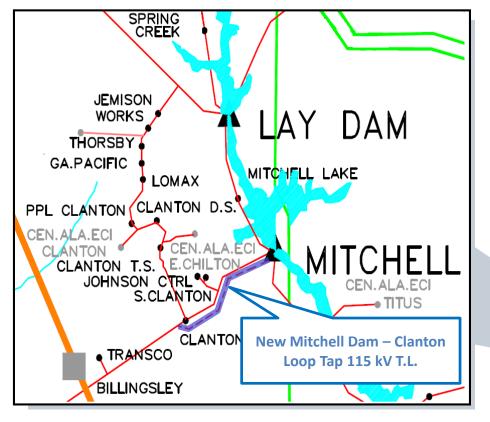
The Holt – Mercedes 115 kV transmission line overloads under contingency. This project also provides increased reliability and maintenance flexibility for the Tuscaloosa Area.



## **SOUTHERN – 4W**

# 2018

### MITCHELL DAM - CLANTON LOOP TAP 115 KV T.L.

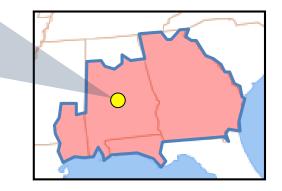


### **DESCRIPTION:**

Construct approximately 10.3 miles of 115 kV transmission line from Mitchell Dam to Clanton Loop Tap with 795 ACSS at 200°C.

### SUPPORTING STATEMENT:

The Mitchell Dam – CRH Tap – Clanton Tap 115 kV transmission line overloads under contingency.



# SOUTHERN – 5W

2019

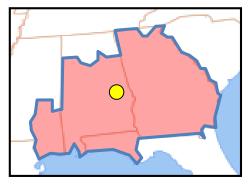
### AUBURN – OPELIKA 115 KV T.L. NETWORKING

#### **DESCRIPTION:**

- Add four new 115 kV switching stations:
  - a) Near East Loop DS (East Loop SS)
  - b) West of North Auburn (Pear Tree SS)
  - c) Near the Chewacla Tap (Pin Oaks SS)
  - d) West of Marvyn DS intersecting the Fuller Rd Notasulga and South Auburn 115 kV T.L.'s (Sanford SS).
- Construct approximately 4 miles of 115 kV T.L. from Pear Tree SS to Wire Road.
- Reconductor approximately 1.8 miles of 115 kV T.L. line between Opelika #1 and Opelika #3 with 795 ACSR at 100°C.
- Reconductor approximately 14.5 miles of 115 kV T.L. between Sanford SS Sonat Tap Pin Oaks Beehive Tap – Chewacla with 397 ACSS at 200°C.
- Reconductor approximately 6 miles of 115 kV T.L. line between North Auburn Pear Tree SS with 795 ACSS
  @ 200°C.

### SUPPORTING STATEMENT:

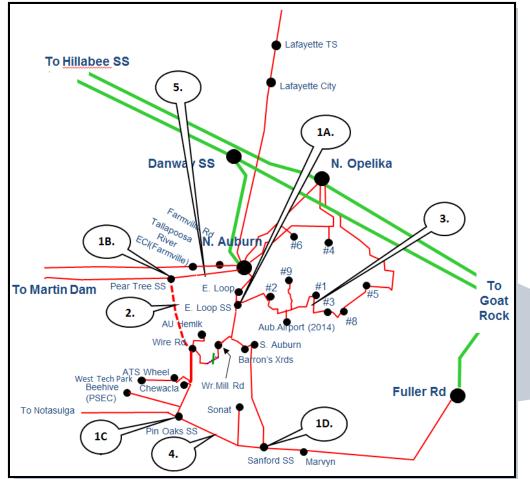
The project provides additional reliability and maintenance flexibility.



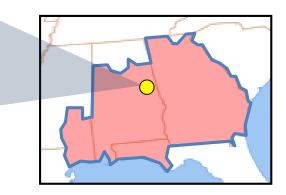
## SOUTHERN – 5W

# 2019

### AUBURN – OPELIKA 115 KV T.L. NETWORKING



- 1. Add four new 115 kV switching stations.
- 2. Construct approx. 4 miles of 115 kV T.L. from Pear Tree SS to Wire Road.
- 3. Reconductor approx. 1.8 miles of 115 kV T.L. between Opelika #1 and Opelika #3 with 795 ACSR at 100°C.
- Reconductor approx. 14.5 miles of 115 kV T.L. between Sanford SS – Sonat Tap – Pin Oaks – Beehive Tap – Chewacla with 397 ACSS at 200°C.
- 5. Reconductor approx. 6 miles of 115 kV T.L. between North Auburn Pear Tree SS with 795 ACSS at 200°C.



# SOUTHERN – 6W

2019

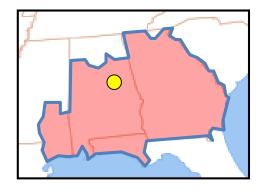
### EASTERN AL AREA 115 KV PROJECT

#### **DESCRIPTION:**

- Reconductor approximately 5.3 miles of 115 kV transmission line between Gulf States Steel and Rainbow City SS with 795 ACSS at 200°C.
- Install new 115 kV switching station around Rainbow City.
- Install new 115kV terminal at Clay TS and upgrade the existing 230/115 kV transformer at Clay TS to 477 MVA.
- Construct approximately 34 miles of 115 kV transmission line between Clay TS and the new Rainbow City SS with 795 ACSS at 200°C

#### **SUPPORTING STATEMENT:**

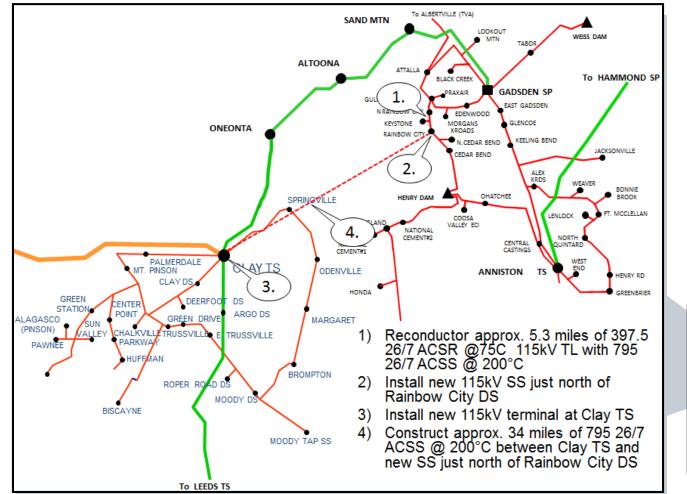
A contingency causes high loadings and hinders maintenance abilities on several 115 kV transmission lines in the Gadsden area.

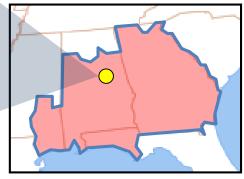


## SOUTHERN – 6W

## 2019

### EASTERN AL AREA 115 KV PROJECT

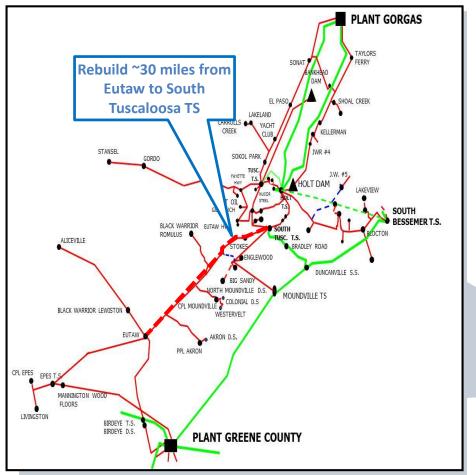




## SOUTHERN – 7W

# 2019

### EUTAW – SOUTH TUSCALOOSA 115 KV T.L.

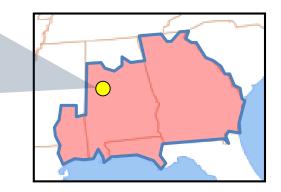


#### **DESCRIPTION:**

Rebuild approximately 30 miles of 397 ACSR 115 kV T.L. from Eutaw to South Tuscaloosa TS with 1033 ACSR at 100° C.

#### SUPPORTING STATEMENT:

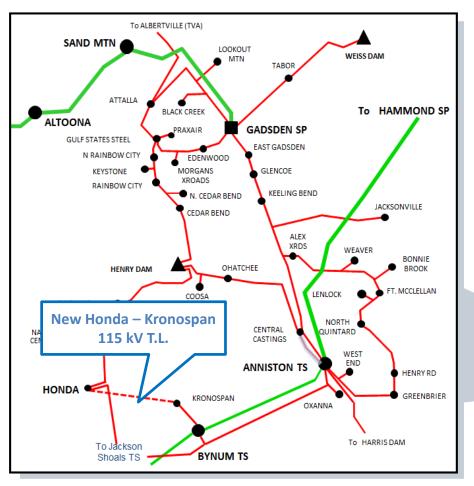
The Eutaw – South Tuscaloosa TS 115 kV T.L. becomes highly loaded under contingency. This project also provides increased operational flexibility in the area.



## SOUTHERN – 8W

# 2019

### HONDA – KRONOSPAN 115 KV T.L.

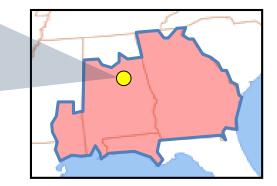


### **DESCRIPTION:**

Construct approximately 10.3 miles of 795 ACSR 115 kV transmission line at 100°C from Honda to Kronospan.

### SUPPORTING STATEMENT:

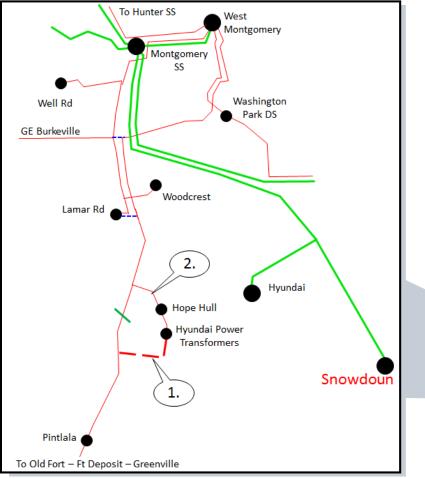
This project provides increased reliability, voltage support, and maintenance flexibility in the area.



# SOUTHERN – 9W

# 2019

### HOPE HULL AREA SOLUTION

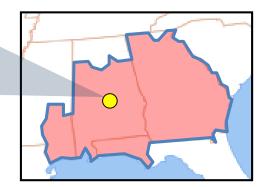


### **DESCRIPTION:**

- Construct approximately 1.8 miles of 795 ACSR 115 kV T.L. from Hyundai P.T. to the West Montgomery – Greenville 115kV T.L.
- 2. Reconductor 2.7 miles of the Hope Hull Tap Hyundai Power Transformers 115 kV T.L. with 795 ACSR.

### SUPPORTING STATEMENT:

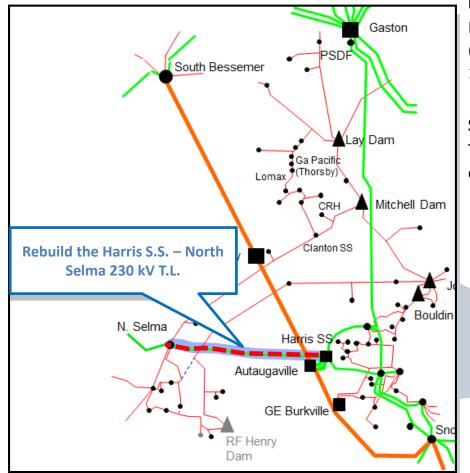
Provides increased reliability and additional maintenance flexibility.



## **SOUTHERN – 10W**

# 2021

### HARRIS – NORTH SELMA 230 KV T.L.

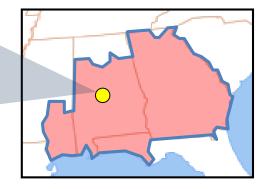


### **DESCRIPTION:**

Rebuild approximately 26 miles of the Autaugaville (Harris SS) – North Selma 230 kV transmission line with 1033 ACCR at 200°C.

### SUPPORTING STATEMENT:

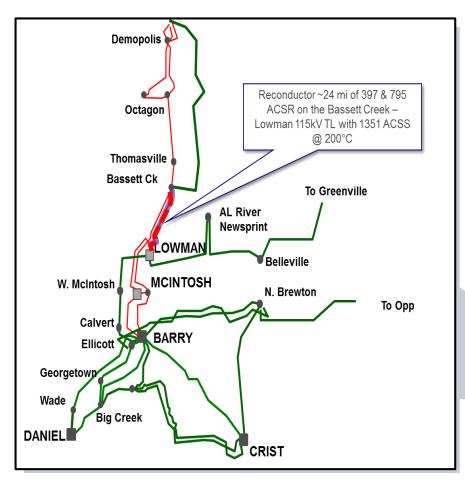
The Harris – North Selma 230 kV transmission line overloads under contingency.



# SOUTHERN – 11W

# 2022

### **BASSETT CREEK – LOWMAN 115 KV T.L.**

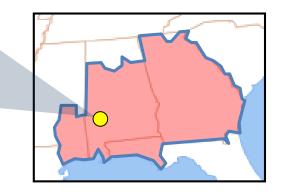


#### **DESCRIPTION:**

Reconductor approximately 24 miles of 115 kV transmission line from Bassett Creek to Lowman with 1351 ACSS at 200°C.

### SUPPORTING STATEMENT:

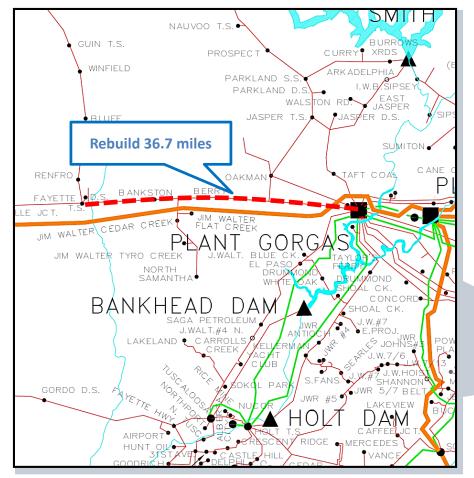
This project creates additional maintenance and operational flexibility along the Bassett Creek to Barry corridor.



# SOUTHERN – 12W

# 2024

### FAYETTE – GORGAS 161 KV T.L.

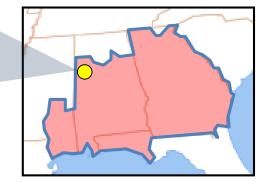


### **DESCRIPTION:**

Rebuild approximately 36.7 miles along the Fayette – Gorgas 161 kV transmission line with 795 ACSS at 160°C.

### SUPPORTING STATEMENT:

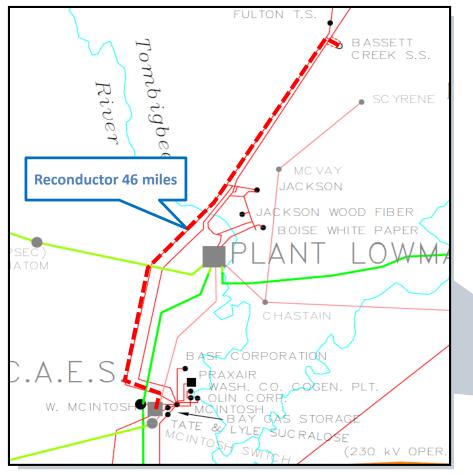
The Fayette – Gorgas 161 kV transmission line overloads under contingency.



# SOUTHERN – 13W

# 2026

### BASSETT CREEK – MCINTOSH 115 KV T.L.

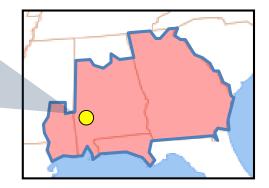


### **DESCRIPTION:**

Reconductor approximately 46 miles along the Bassett Creek – McIntosh 115 kV transmission line with 1351 ACSS at 200°C.

### SUPPORTING STATEMENT:

This project creates additional maintenance and operational flexibility along the Bassett Creek to Barry corridor.



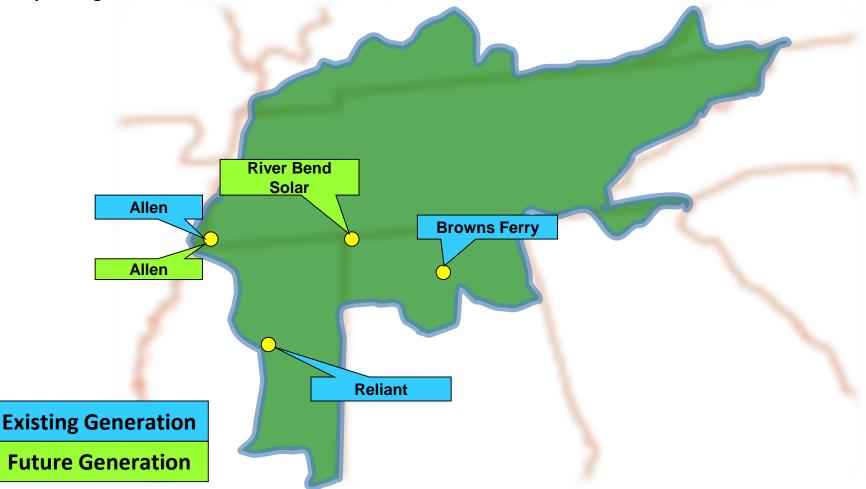


# TVA Balancing Authority 2017 Generation Assumptions



## **TVA – Generation Assumptions**

The following diagram depicts the location of generation assumptions <u>that change</u> throughout the ten year planning horizon for the 2017 SERTP Process.



## **TVA – Generation Assumptions**

The following table depicts the generation assumptions <u>that change</u> throughout the ten year planning horizon for the 2017 SERTP Process. The years shown represent Summer Peak conditions.

SITE	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
RIVER BEND SOLAR	75	75	75	75	75	75	75	75	75	75
ALLEN 1-3	0									
ALLEN CC	1082	1082	1082	1082	1082	1082	1082	1082	1082	1082
BROWNS FERRY UNIT 3	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242
BROWNS FERRY UNIT 1	1103	1237	1237	1237	1237	1237	1237	1237	1237	1237
BROWNS FERRY UNIT 2	1108	1242	1242	1242	1242	1242	1242	1242	1242	1242

## **TVA–** Generation Assumptions (Point-to-Point)

The following table depicts generation assumptions based upon expected <u>long-term firm point-to-point</u> <u>commitments</u>. The years shown represent Summer Peak conditions.

SITE	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
RELIANT	800	800	800	800	800	800	800	800	800	800



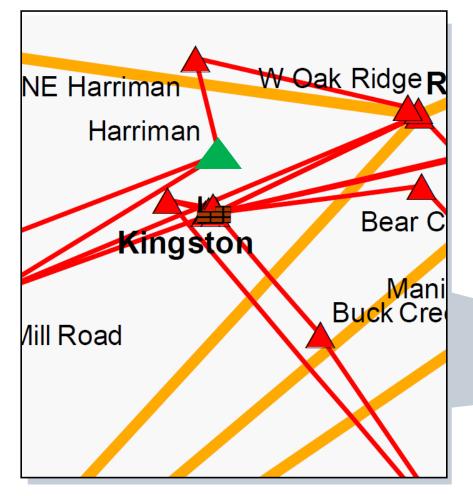
# TVA Balancing Authority

# Preliminary Transmission Expansion Plan

# **TVA - 1**

# 2018

### HARRIMAN, TN 161 KV SUBSTATION

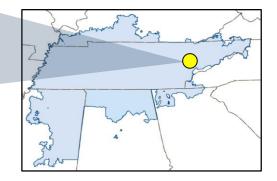


### **DESCRIPTION:**

Reconfigure the Harriman, TN 161 kV substation by looping an additional 161 kV transmission line into the substation and installing 3, 161 kV breakers.

### SUPPORTING STATEMENT:

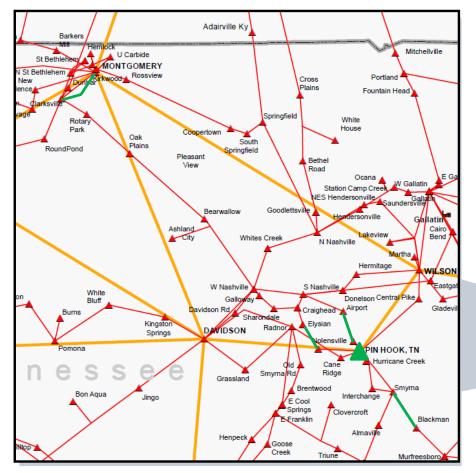
Additional voltage support is needed in the Harriman, TN area under contingency.



TVA – 2

## 2018

### NASHVILLE AREA IMPROVEMENT PLAN

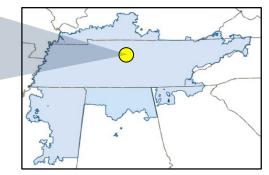


### **DESCRIPTION:**

Install an additional 1344 MVA, 500/161 kV transformer at the Pin Hook 500 kV substation. Reconductor the Nolensville Road – Elysian Fields 161 kV T.L. with 636 ACSS at 150°C. Reconductor the Murfreesboro Road – Airport 161 kV T.L. with 636 ACSS at 150°C. Reconductor the Blackman Tap – Smyrna 161 kV T.L. with 636 ACSS at 150°C. Construct the Montgomery – Clarksville #3 161 kV T.L. with 1590 ACSS at 150°C.

#### SUPPORTING STATEMENT:

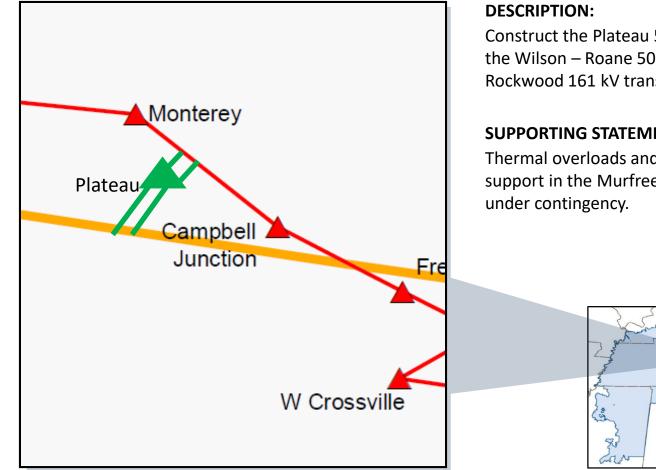
Thermal overloads and the need for additional voltage support is needed in the Nashville area under contingency.



## TVA - 3

# 2018

### **PLATEAU 500 KV SUBSTATION**



Construct the Plateau 500 kV substation by looping in the Wilson – Roane 500 kV and West Cookeville – Rockwood 161 kV transmission lines.

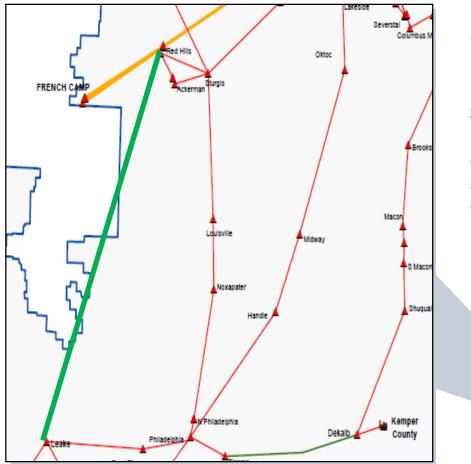
#### SUPPORTING STATEMENT:

Thermal overloads and need for additional voltage support in the Murfreesboro, TN and Knoxville, TN areas

## **TVA – 4**

# 2019

### RED HILLS – LEAKE 161 KV T.L.

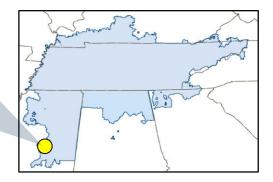


#### **DESCRIPTION:**

Construct approximately 60 miles of 161 kV transmission line from Red Hills to Leake with 954 ACSR at 100°C.

#### SUPPORTING STATEMENT:

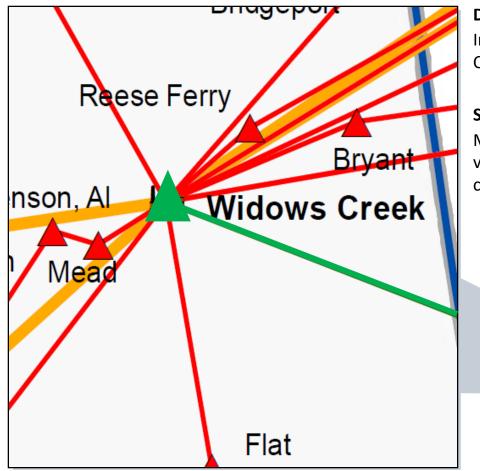
Multiple 161 kV transmission lines in the lower MS area overload under contingency and additional voltage support is needed in the lower MS area under contingency.



## TVA – 5

# 2019

#### WIDOWS CREEK FP SUBSTATION

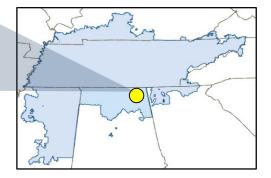


#### **DESCRIPTION:**

Install a second 500/161 kV transformer at the Widows Creek Fossil Plant Substation.

#### SUPPORTING STATEMENT:

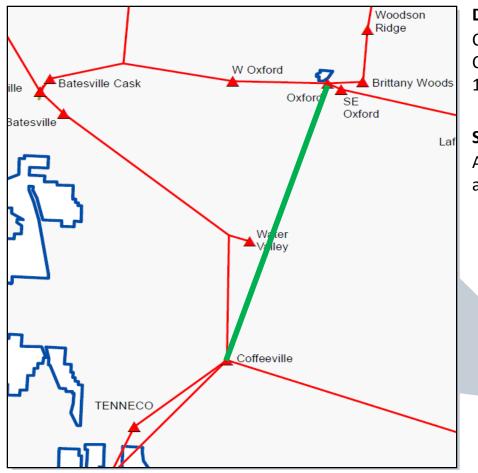
Multiple transmission lines overload and additional voltage support needed in the Huntsville, AL area under contingency.



## **TVA – 6**

# 2019

### OXFORD – COFFEEVILLE 161 KV T.L.

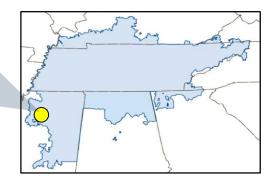


#### **DESCRIPTION:**

Construct approximately 30 miles of the new Oxford – Coffeeville 161 kV transmission line with 954 ACSR at 100°C.

#### SUPPORTING STATEMENT:

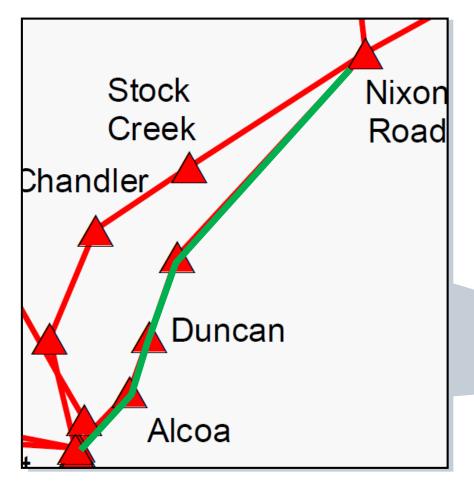
Additional voltage support is needed in the Mississippi area under contingency.



### TVA – 7

# 2020

### ALCOA SS – NIXON ROAD 161 KV T.L.

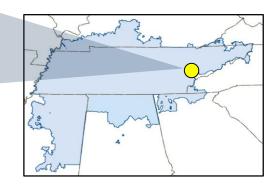


#### **DESCRIPTION:**

Rebuild approximately 12 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:

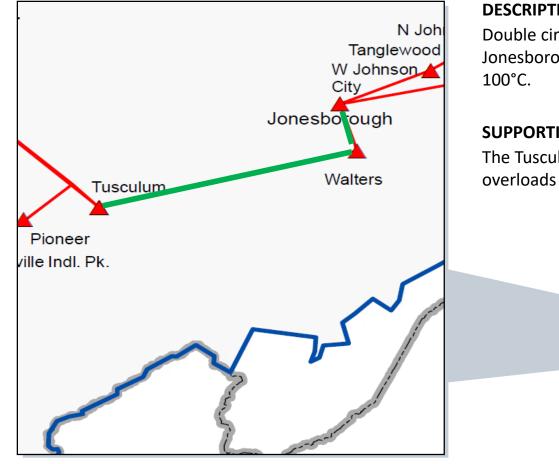
The existing Alcoa Switching Station – Nixon Road 161 kV transmission line overloads under contingency.



## **TVA – 8**

# 2020

#### TUSCULUM – JONESBOROUGH 161 KV T.L.

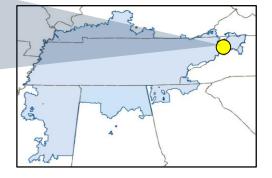


#### **DESCRIPTION:**

Double circuit approximately 17 miles of the Tusculum -Jonesborough 161 kV transmission line with 954 ACSR at

#### SUPPORTING STATEMENT:

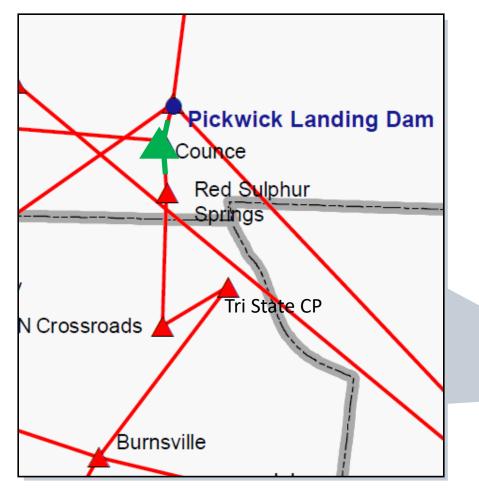
The Tusculum - Jonesborough 161 kV transmission line overloads under contingency.



### TVA – 9

# 2021

#### COUNCE, TN 161 KV SUBSTATION

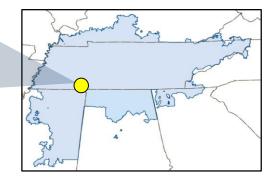


#### **DESCRIPTION:**

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

#### SUPPORTING STATEMENT:

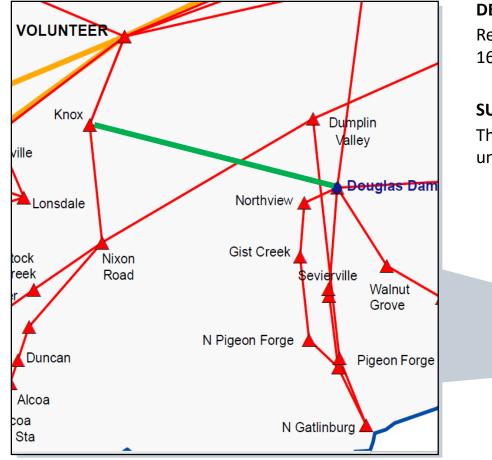
Additional voltage support is needed in the Counce, TN area under contingency.



### TVA – 10

# 2021

#### KNOX – DOUGLAS 161 KV T.L.



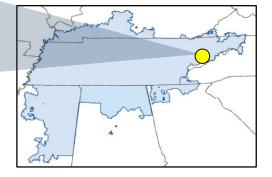
244

#### **DESCRIPTION:**

Rebuild approximately 15 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.



Southeastern Regional TRANSMISSION PLANNING

2017 SERTP

# SERTP Miscellaneous Updates



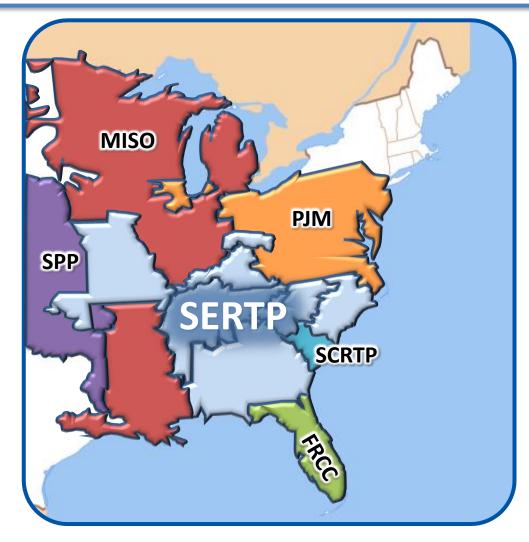
## **Regional Analyses Update**

• Sponsors are currently developing a list of potential alternative transmission projects to evaluate in the 2017 regional analyses

 These projects are generally developed by identifying areas with multiple forecasted transmission projects which could be potentially displaced by a regional transmission project



### **Interregional Update**





## **Interregional Update**

 Latest interregional coordination procedures are posted on the <u>SERTP</u> <u>website</u>

 Meetings have occurred with the MISO, PJM, and SPP seams to facilitate the exchange of power-flow models and transmission expansion plans. Similar interregional data exchange meetings are scheduled with FRCC and SCRTP.



## **Next Meeting Activities**

- 2017 SERTP 3<sup>rd</sup> Quarter Meeting Second RPSG Meeting
  - Location: Charlotte, NC
  - Date: TBD
  - Purpose:
    - o Discuss Preliminary Economic Planning Study Results
    - o Discuss Previous Stakeholder Input on Transmission Expansion Plans

Southeastern Regional TRANSMISSION PLANNING

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# Questions?

www.southeasternrtp.com