

South Carolina Regional Transmission Planning

Stakeholder Meeting

Virtual Meeting

March 11, 2026

Purpose and Goals for Today's Meeting

- Review and Discuss Key Assumptions and Data for the Next Planning Cycle
- Review and Discuss Major Transmission Expansion Plans
- SCRTP – SERTP Merger Following FERC Order 1920 Compliance Filing Deadline

Key Assumptions and Data for the Next Planning Cycle

DESC – Jeff Neal

Modeling Assumptions and Data

Dispersed Substation Load Forecast

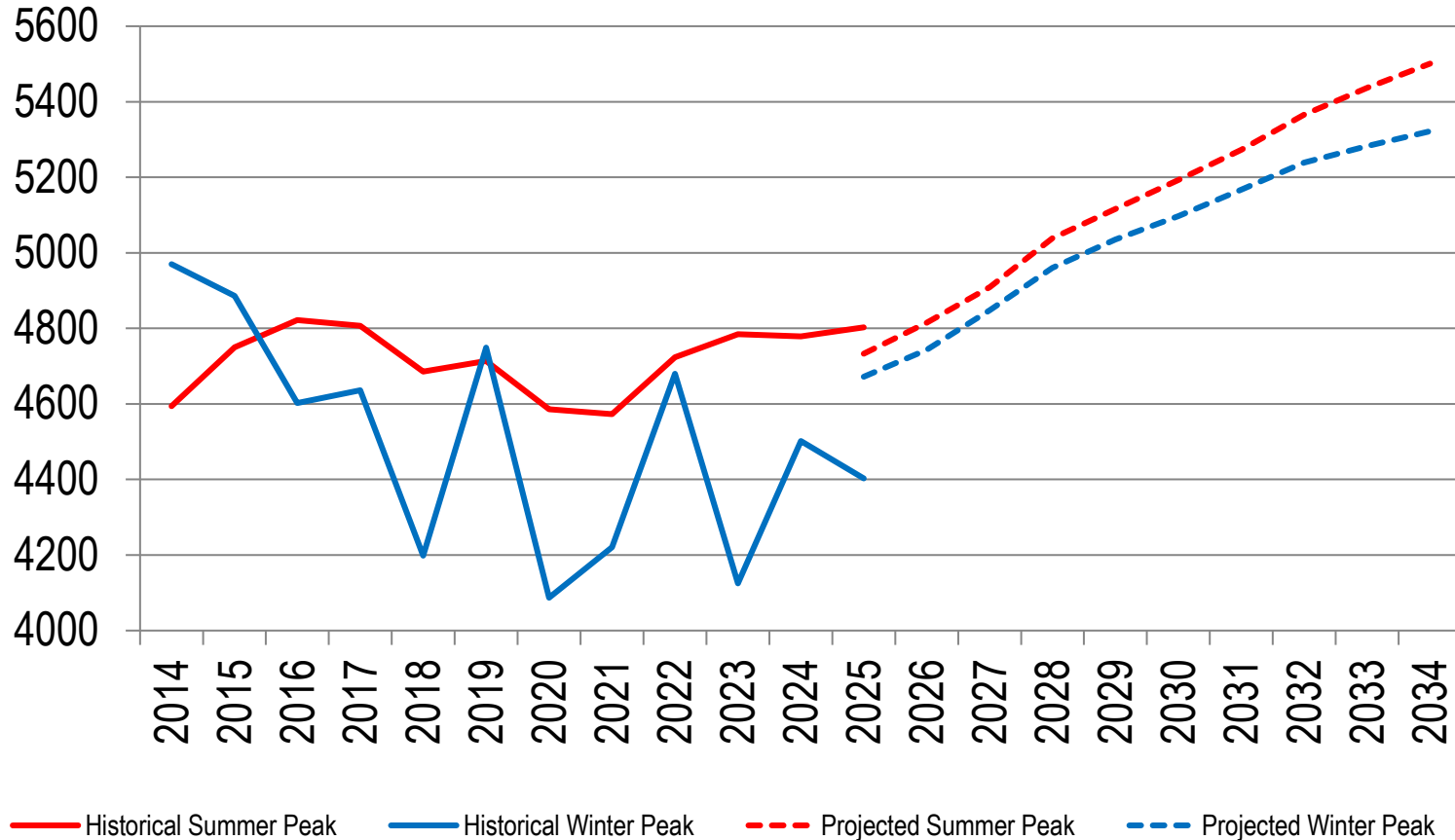
- Summer/Winter Peak, Off-Peak and Seasonal Load Levels
- Resource Planning provides 10 Year system load forecasts
- Transmission Planning creates dispersed substation load forecasts

Load Forecast Process

Resource Planning Input

- Develop 10-year projected forecast based on:
 - 10-year historical load summer and winter loads
 - Load factors by customer class
 - Considers weather, personal income, population growth, economic conditions, load management, energy efficiency, etc
 - Applies regression analysis to historical data to develop models
 - Applies forecasted growth rates to develop future projections

Load Forecast



Load Forecast Process

Transmission Planning Input

- Obtain summer and winter snapshot meter data from most recent seasons and adjust for load switching
- Develop 10-year projected forecast based on:
 - 10-year historical loading
 - Feedback from Distribution Planning, Local Managers, Large Industrial Group and Transmission Services Manager
- Wholesale loads are modeled as provided by the customer
- Dispersed forecasted load points are integrated into corporate load forecast

Modeling Assumptions and Data

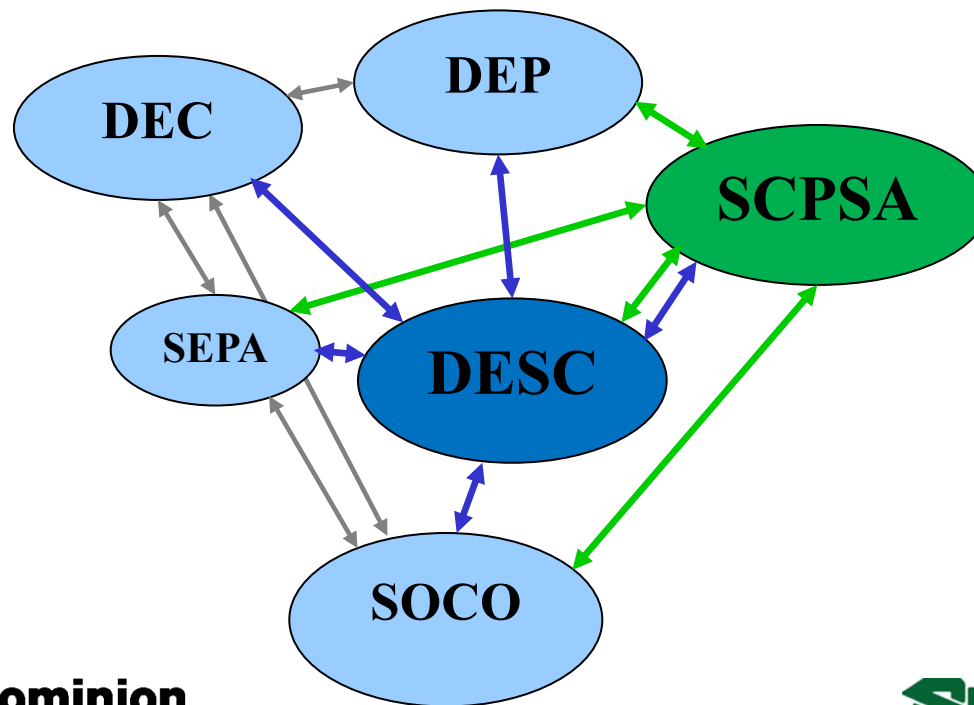
Generation

- Annual generator ratings used
- Input from Generation Expansion Plan – Reductions/Additions
- Input from Generation Maintenance Schedule
- Generators dispatched economically
- Merchant Generators included

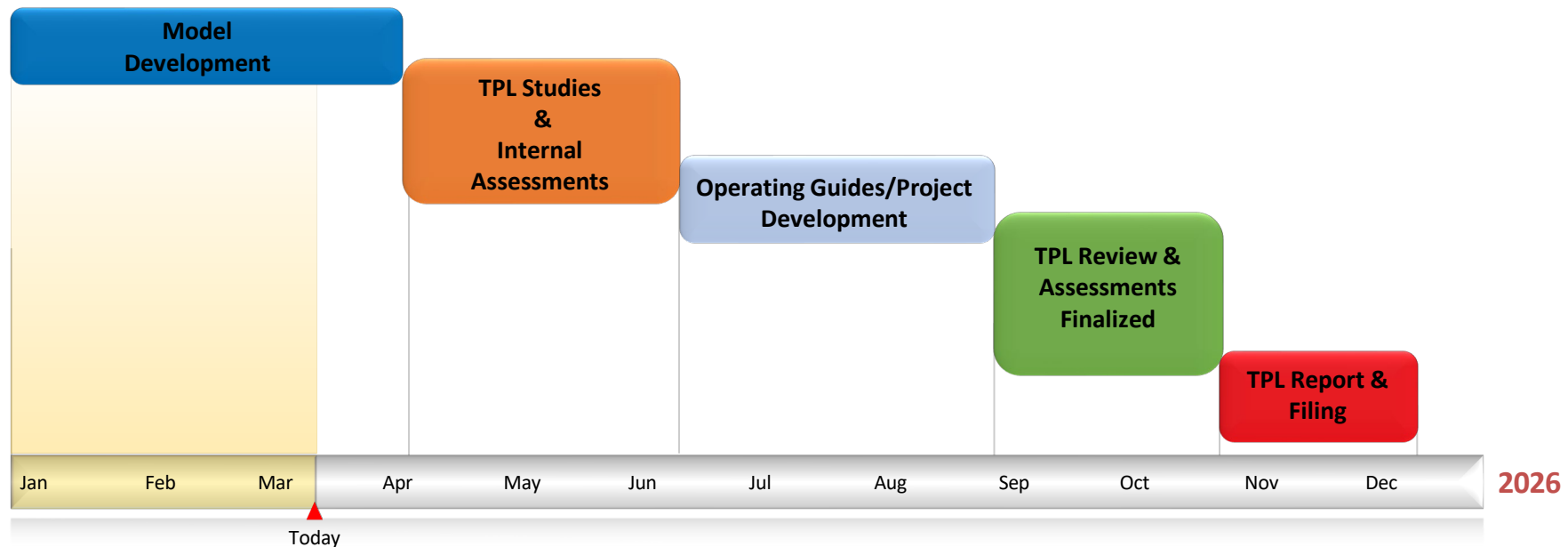
Modeling Assumptions and Data

System Interchange

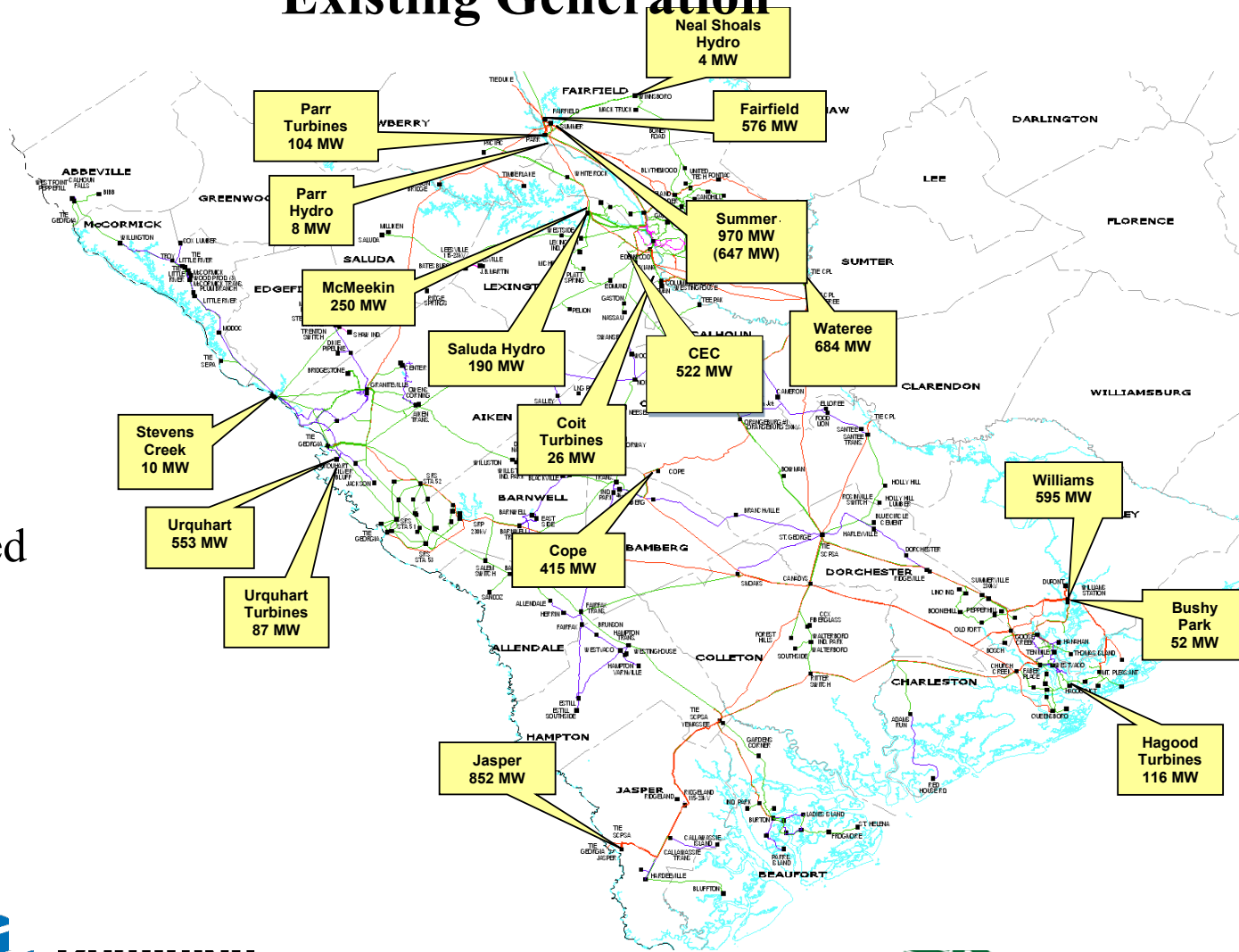
- Firm scheduled transfers included
- Coordinated with Neighbors



Reliability Transmission Planning Studies Timeline



Existing Generation

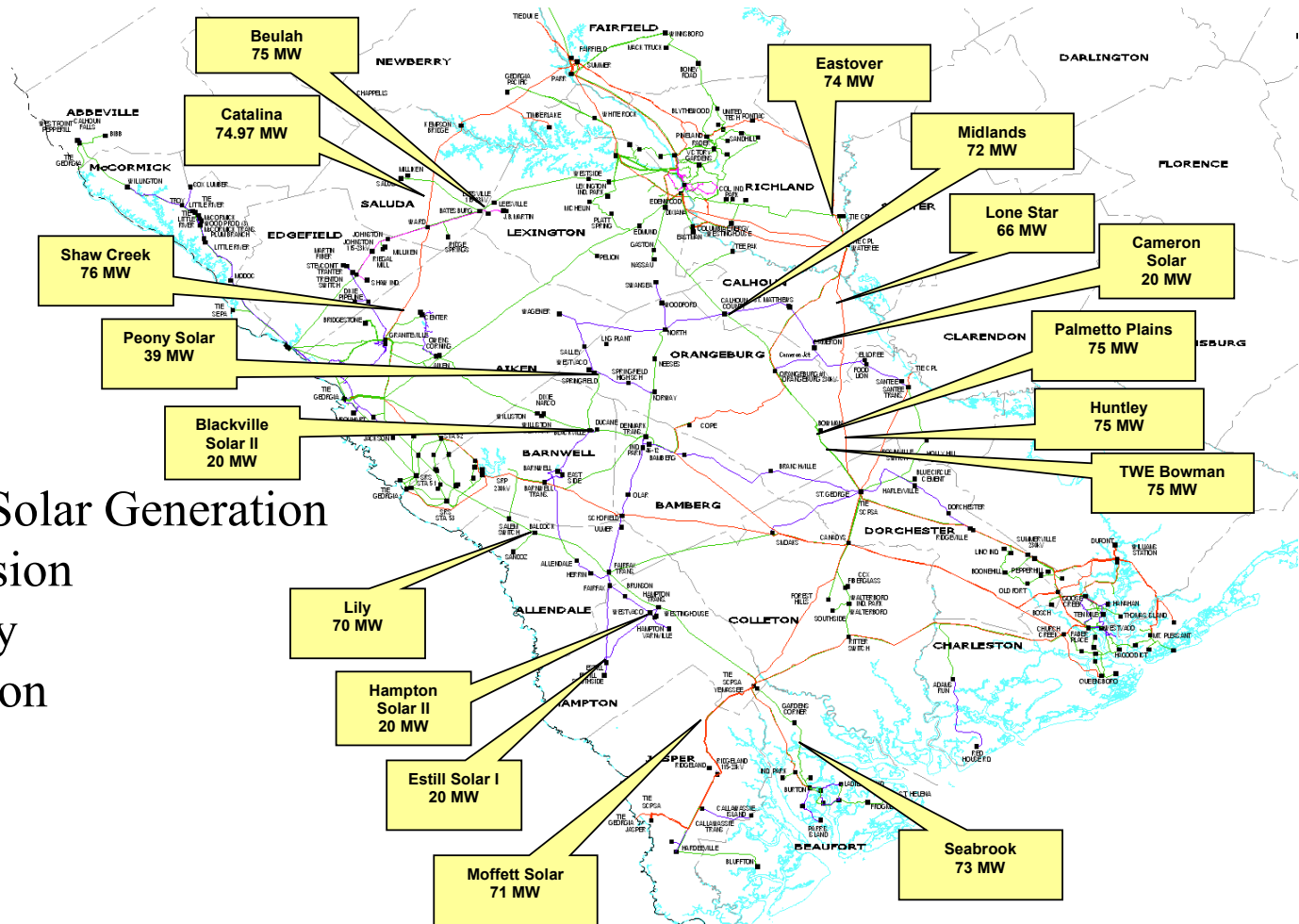


DESC Owned
Generation
5,637 MW

Lone Star
66 MW



Merchant Generation



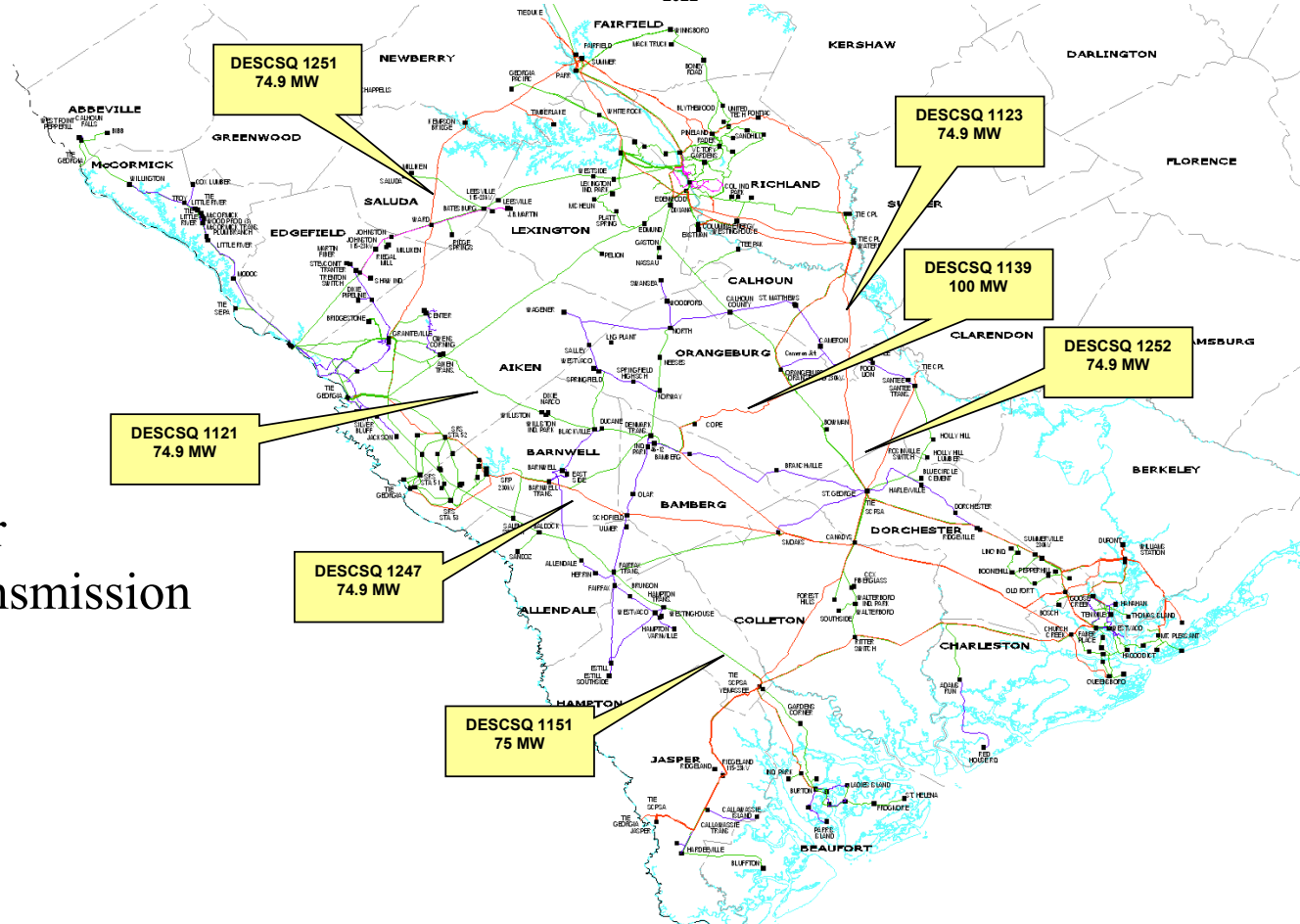
Additional Dispersed Solar Generation

- 996 MW Transmission
 - 84 MW Battery
- 193 MW Distribution



Future Generation Additions

2022



Dispersed Solar
549.5 MW Transmission

Interconnection DISIS 2024

- Total new generation remaining in cluster: 1662 MW
- Phase 3 study in progress
 - PV Only: 74.5 MW
 - Hybrid: 575 MW PV & 287.4 MW BESS
 - BESS Only: 0 MW
 - Gas: 1012.5 MW

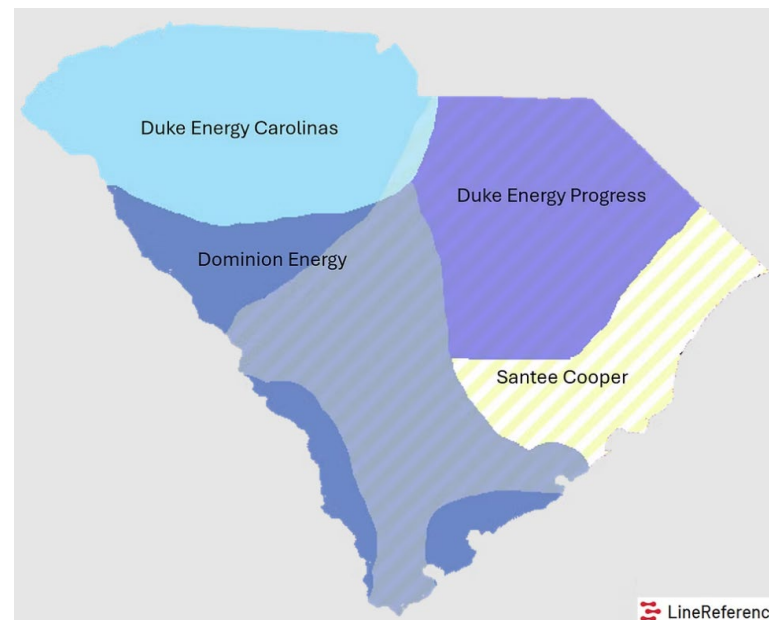
Interconnection Cluster 2025

- Total new generation remaining in cluster: 249.5 MW
- Study in-progress
 - PV Only: 75 MW
 - Hybrid: 74.9 MW PV & BESS
 - BESS Only: 100 MW

Modeling Assumptions and Data

Transmission Network

- Input from Transmission Plan
- Neighboring Transmission Systems Modeled



Modeling Assumptions and Data Planned Transmission Facilities



3/9/2026

Dominion Energy South Carolina Planned Transmission Facilities

Planned Project	Tentative Completion Date
Summerville 115 kV Loop Rebuild	Apr-26
Columbia Canal 115kV Rebuild	May-26
Scout 230 kV Sub and Fold-in Construct	May-26
Eastover – Sumter 115kV DEP Tie: Rebuild with 1272 ACSR	May-26
Batesburg - Saluda County 115kV: Rebuild Line	Jun-26
Summerville - Boonehill 115kV HWY78 Relocation	Jul-26
Urquhart – Toolebeck 115kV line: Rebuild 477 ACSR sections	Aug-26
Dawson 230 kV Sub and Fold-in: Construct and Rebuild	Oct-26
Cainhoy - Hamlin 115kV: Rebuild Line and Cainhoy – Hamlin 115 kV #2: Construct New 115 kV Line	Dec-26
Coit – Gills Creek 115kV: Construct	Dec-26
Okatie 230-115kV Sub and the Jasper – Yemassee Fold In	Dec-26
Jasper – Okatie 230 kV #2: Construct	Dec-26
Riverport Tap: Construct Tap	Dec-26
Flat Rock 115-12kV Sub and Tap Construct	Dec-26
Saluda Hydro - Bush River 115kV #1 & #2 Rebuild	Dec-26
Church Creek –Faber Place – Charleston Transmission: Add 230kV Line	May-27
Yemassee– Ritter 230kV #1 & #2: Construct SPDC with B-1272	Jun-27
Fairfax-Yemassee 115kV: Upgrade for DESCQ #1151 Interconnection	Sep-27
St George - Sumter 230kV Tie: Rebuild Line from Santee Substation - Duke/Progress Energy Tie	Dec-27
Hooks - Modoc 115/46 kV Rebuild	Dec-27
Burton-St Helena 115kV: Frogmore Distribution - St Helena	Dec-27
Wagener 115kV Tap: Construct Tap	Dec-27
Cameron Jct – Elloree 46 kV Rebuild	Dec-27
Atomic Road 115-12 kV Sub Construct	Dec-27
Elloree – Santee City 46 kV: Rebuild	Dec-27
Urquhart – Aiken PSA 46 kV: Rebuild	Dec-27
Waterlee-Hopkins 230kV Line #1: Rebuild	Dec-27
Adams Run - Red House Rd. 46kV: Replace Dawhoo River Structures	Dec-27
Lytes – Kilbourne Park 115kV	Dec-27
Windsboro West 230-115 kV Sub and Fold-in: Construct	Jan-28
Williams-Summerville 230kV: Upgrade to SPDC B1272 ACSR	May-28
Church Creek - Ritter 230kV - Replace 25 Large Angles and Dead Ends	Dec-28
Jackson 115-12 kV Sub and Tap Construct	Dec-28
Harleyville 115kV Transmission Tap	Dec-28
Orangeburg #1 - Cameron Jct 46kV Line Rebuild	Dec-28
VCS1-Denny Terrace 230kV & VCS1-Pineiland 230kV: Rebuild Single Circuit Sections	Dec-28
Coast Guard 115 kV Tap: Construct	Dec-28
Millrace 115 kV Tap: Construct	Dec-28
Williams St Sub: Replace Sw House & Relays, AMW Sub: Replace Sw House, & McMeekin Sub: Add Sw House	Dec-28
Cameron Jct – Cameron – St Matthews 46 kV Rebuild	Dec-28
Okatie – McIntosh 115kV Tie: Add Series Reactor	Dec-28
CAE Industrial Park - Springdale Sub 115kV	Dec-28
St. George- Holly Hill 115kV Rebuild	Dec-28
Canadys – Ritter 115kV: Rebuild as 230/115kV Double Circuit	Jun-29
Waterlee-Killian 230kV: Rebuild	Dec-29
Church Creek – Dawson 230 kV: Rebuild from Long Savannah to Dawson	Dec-29
Long Savannah 115 kV Tap: Construct	Dec-29
Modoc – McCormick 115/46 kV Rebuild	Dec-29
Stevens Creek - Graniteville 115 kV: Rebuild	Dec-29
Calhoun County - North 46 kV Rebuild	Dec-29
Union Pier 115-13.8 kV Sub: Tap	Dec-30
Faber Place-Bayfront 115kV: Rebuild North Bridge Terrace to Bayfront Section	Dec-30
Clements Ferry 115-23kV Sub: Construct; Jack Primus-Cainhoy 115kV with Clements Ferry Tap Construct	Dec-31
VCS2-Ward 230kV: Rebuild Line	Dec-32



Santee Cooper Transmission Planning Models Key Assumptions and Data

Chris May

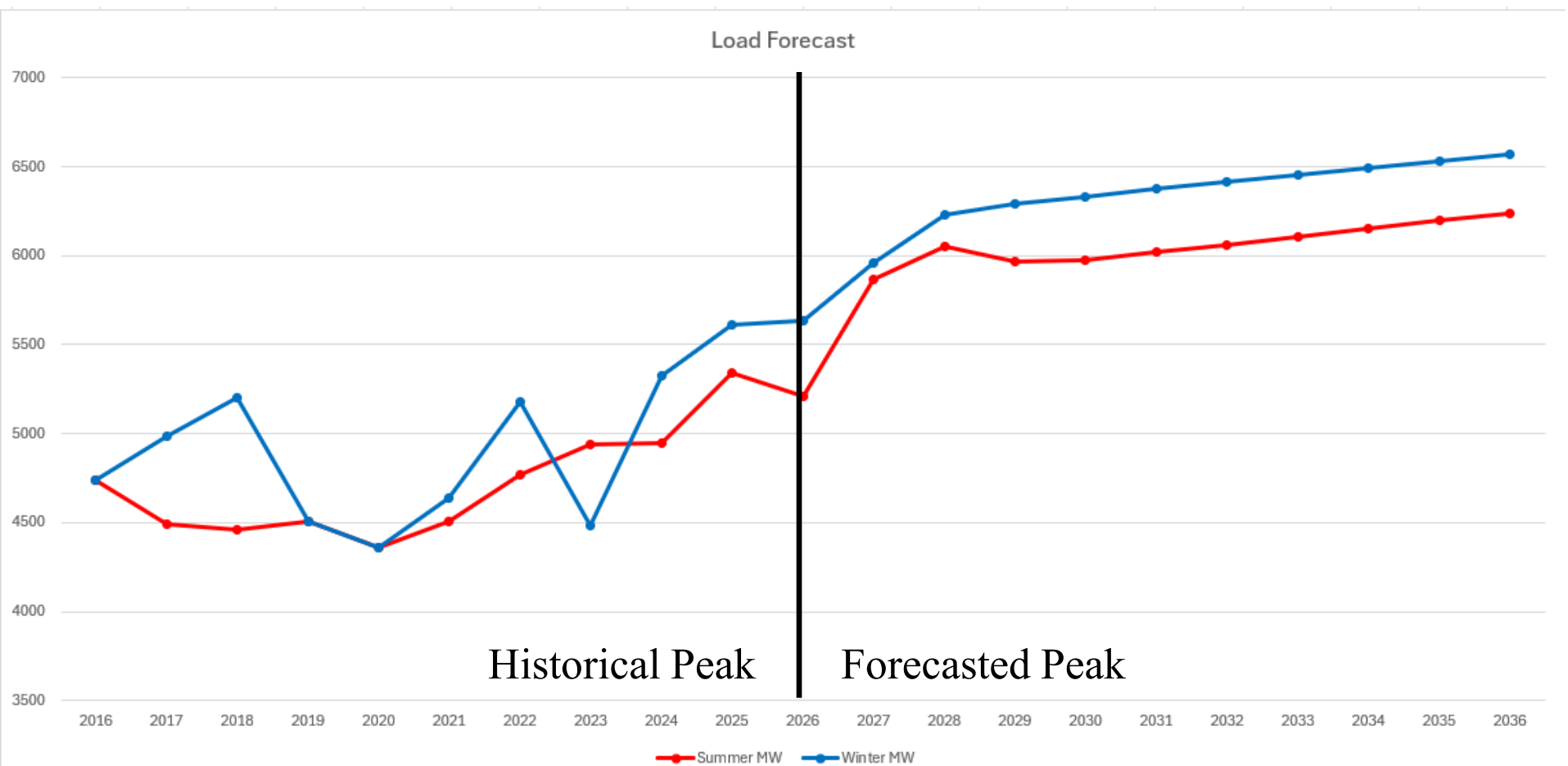
Major Model Components

- Load Demand Forecast
- Transmission Network
- Generation Resources
- Actual System Operations

Load Demand Forecast

- 10-year projected demand forecast
 - Wholesale customers load forecast (from Central)
 - Industrial and municipality customer contracts
 - Santee Cooper Distribution load forecast
 - Transmission Planning produces dispersed substation load based on power factors derived from most recent meter data
- System Peak and off-peak load conditions

Santee Cooper 10-Year Actual & Load Forecast



Transmission Network

Models include:

- Existing transmission system and committed projects
- Neighboring transmission system representations
- All facilities assumed to be available unless notified otherwise
- Normal operating status (in-service or out-of-service) of facilities is represented

Transmission Network

- Uniform rating methodology is applied to transmission facilities
- Base case models are updated annually prior to annual transmission assessment
- Study models may be updated as needed prior to any study
- Neighboring and Regional system network from the latest MMWG models are used

Committed Transmission Facilities

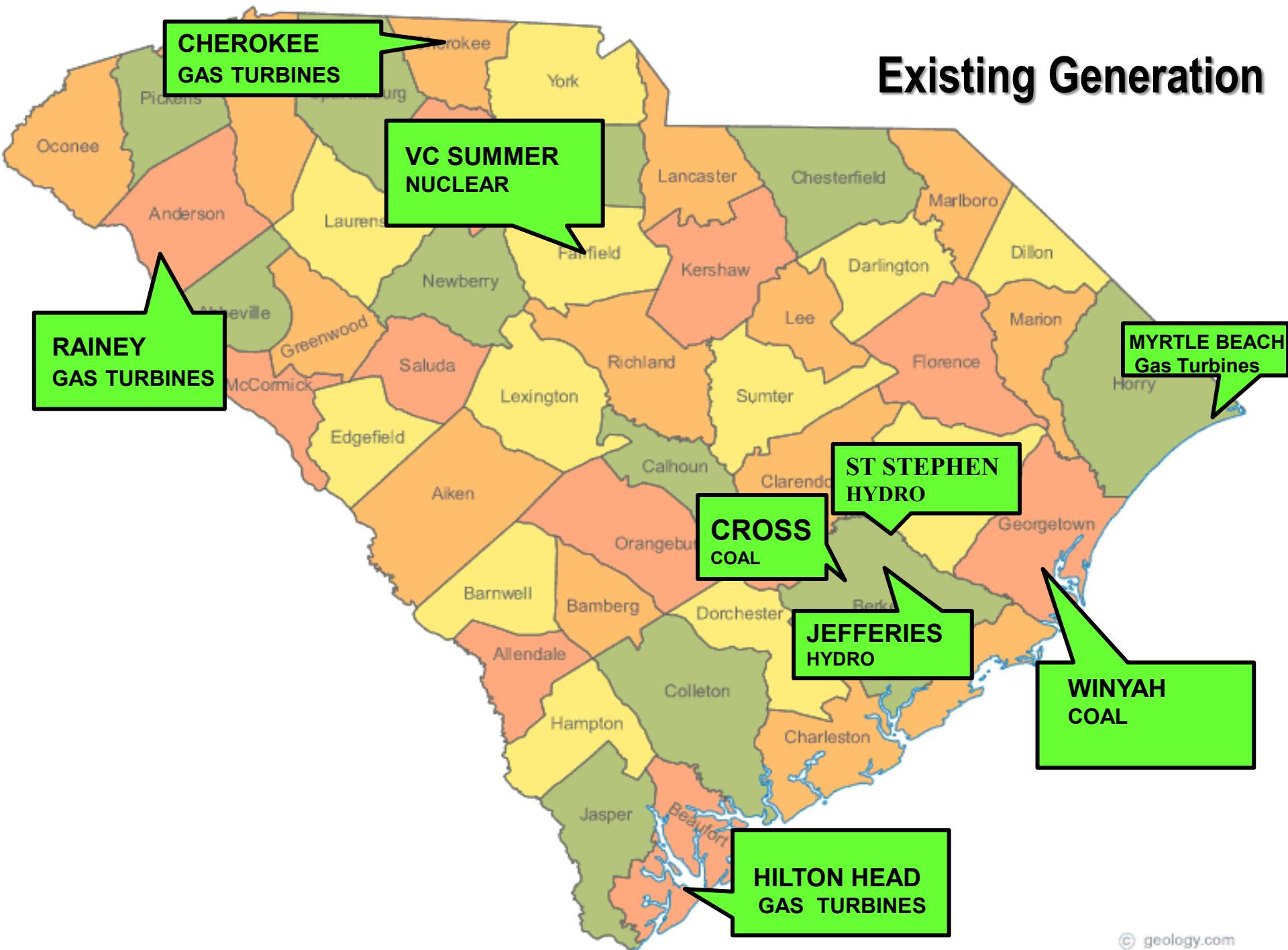
Project Title	In-service Date
Reconductor Purrysburg - McIntosh 230 kV tie lines	5/1/2026
Bluffton Station Improvements	11/1/2026
Indian Field-Wassamassaw 230 kV Line	12/1/2026
Indian Field 230-115 kV Substation	12/1/2026
Cross - Wassamassaw 230 kV #2 Line	6/1/2027
Purrysburg Station Improvements	6/1/2027
Varnville 230-115-69 kV Substation Upgrades	12/1/2028
Varnville - Indian Field 230 kV line	6/1/2029
Rebuild Kingstree-Hemingway 115 kV Line as a Double Circuit 230/115 kV Line	6/1/2029
Marion - Red Bluff 230 kV line	12/1/2029
Yemassee - Varnville 230 kV line Rebuild	12/1/2029
Cross - Jefferies #2 230 kV Line	6/1/2030

Generation Resources

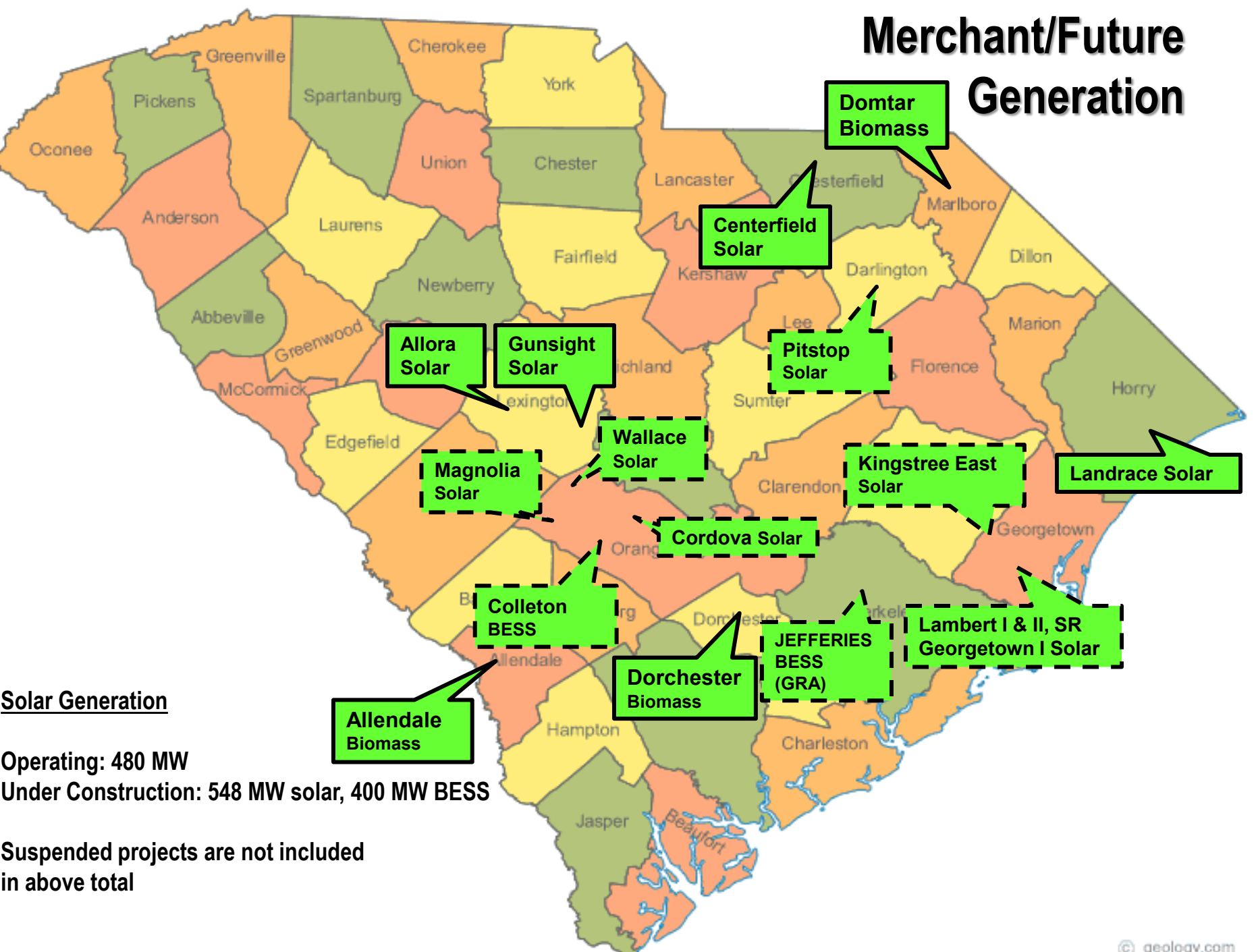
Existing/Committed Generation

Cross Units 1- 4	J.S. Rainey Combined Cycle PB1
Winyah Units 1-4	J.S. Rainey Combined Cycle PB2
Hilton Head Turbines 1-3	J.S. Rainey 3-5 CTs
Myrtle Beach Turbines 1-5	Spillway Hydro
Jefferies Hydro 1, 2, 3, 4, 6	St. Stephen Hydro 1-3
Allendale (Merchant)	V.C. Summer #1 (shared output with DESC)
Cherokee Combined Cycle	Dorchester (Merchant)
Centerfield Solar (Merchant)	Domtar (Merchant)
Allora Solar (Merchant)	Gunsight Solar (Merchant)
Lambert I and II Solar (Merchant ISD 2025)	Landrace Solar (Merchant)
Wallace Solar (Merchant ISD 2026)	Kingstree East Solar (Merchant ISD 2029)
Cordova Solar (Merchant ISD 2027)	Georgetown Solar (Merchant ISD 2026)
Colleton BESS Merchant ISD 2029)	Pinopolis BESS (ISD 2027)

Existing Generation



Merchant/Future Generation



Solar Generation

Operating: 480 MW
 Under Construction: 548 MW solar, 400 MW BESS

Suspended projects are not included in above total

Resources Assumptions and Data

- Generation data is verified with Generation Department
- Seasonal models account for unit maintenance outages, known at the time, based on planned maintenance schedules
- Confirmed firm transmission service reservations
- SEPA allocations and other contracted purchases
- Economic dispatch order is used for generator dispatch in base cases

Santee Cooper Planning Models Data and Assumptions

Questions?

Current DESC Transmission Expansion Plans

Jeff Neal

Disclaimer

- The projects described in these presentations represent the current transmission plans within the SCRTP footprint.
- The expansion plan is continuously reviewed and may change due to changes in key data and assumptions.
- This presentation does not represent a commitment to build.

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Welcome to the Dominion Energy South Carolina OASIS

SCE&G is now Dominion Energy South Carolina

For transaction purposes, we will continue to use the "SCEG" company code for transmission reservations and tags.

News and Announcements

Hourly and Daily PTP Service Discounted.

The offer price for Hourly and Daily PTP service has been discounted effective March 1st, 2019.

[Informational Postings](#)

Notice: This document was last updated January 06, 2020.

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DESC Planned Transmission Facilities



3/9/2026

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St. George- Holly Hill 115kV Rebuild	Dec-28
Canadys – Ritter 115kV: Rebuild as 230/115kV Double Circuit	Jun-29
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VCS2-Ward 230kV: Rebuild Line	Dec-32



DESC

2026 - 2030

Planned Transmission Facilities

Saluda Hydro – Bush River 115kV #1 and #2 Tie Lines Rebuild

Project Description

Rebuild the existing Saluda Hydro – Bush River #1 and #2 Tie Lines to SPDC 1272.

Project Need

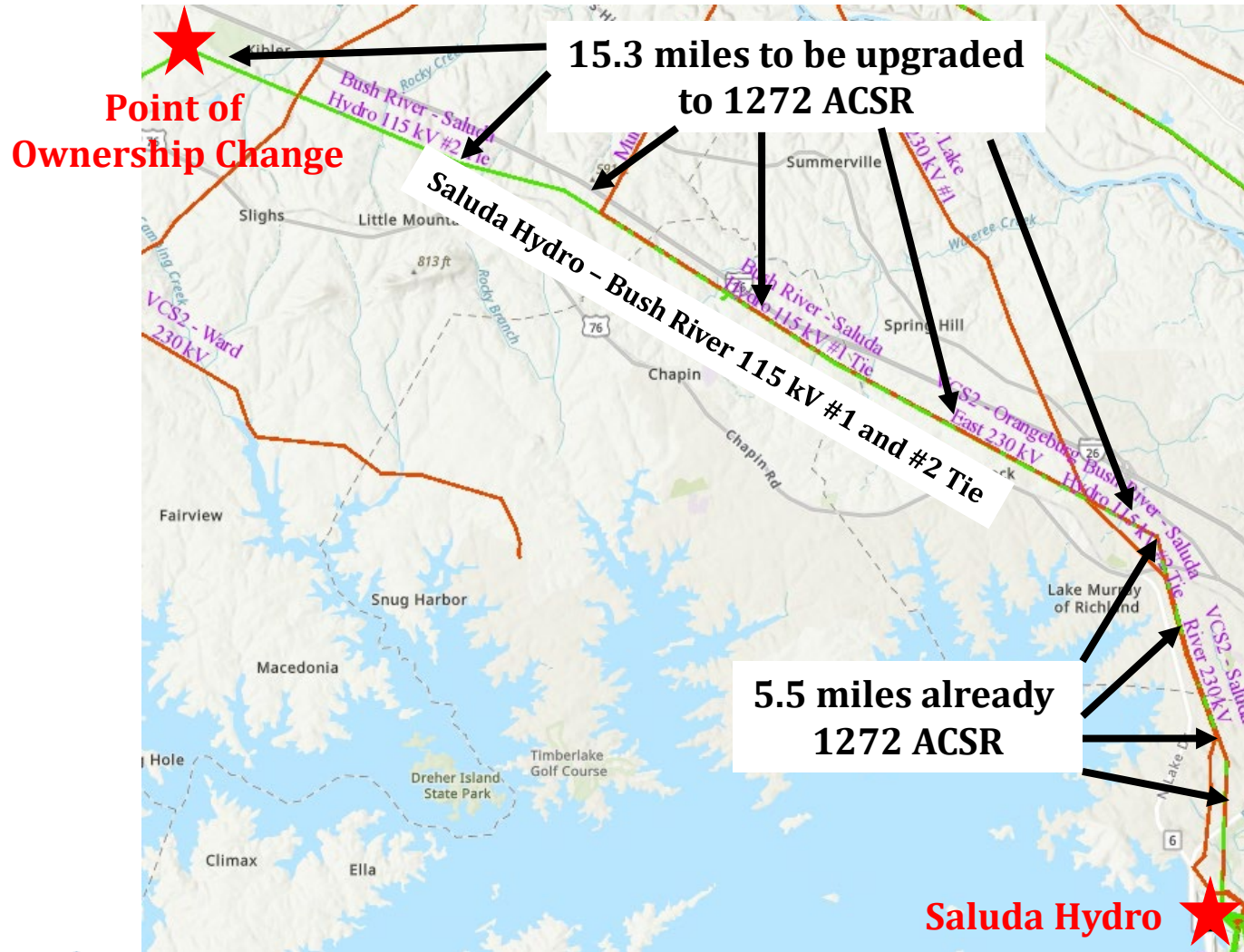
This project is needed to improve system performance and to meet NERC TPL and internal DESC Planning Criteria for reliability.

Project Status

In Progress

Planned In-Service Date

December 2026



Okatie – McIntosh 115kV Tie: Add Series Reactor

Project Description

Construct Deerfield Switching Station and Install a 9% series reactor on the Okatie – McIntosh 115kV Tie Line.

Project Need

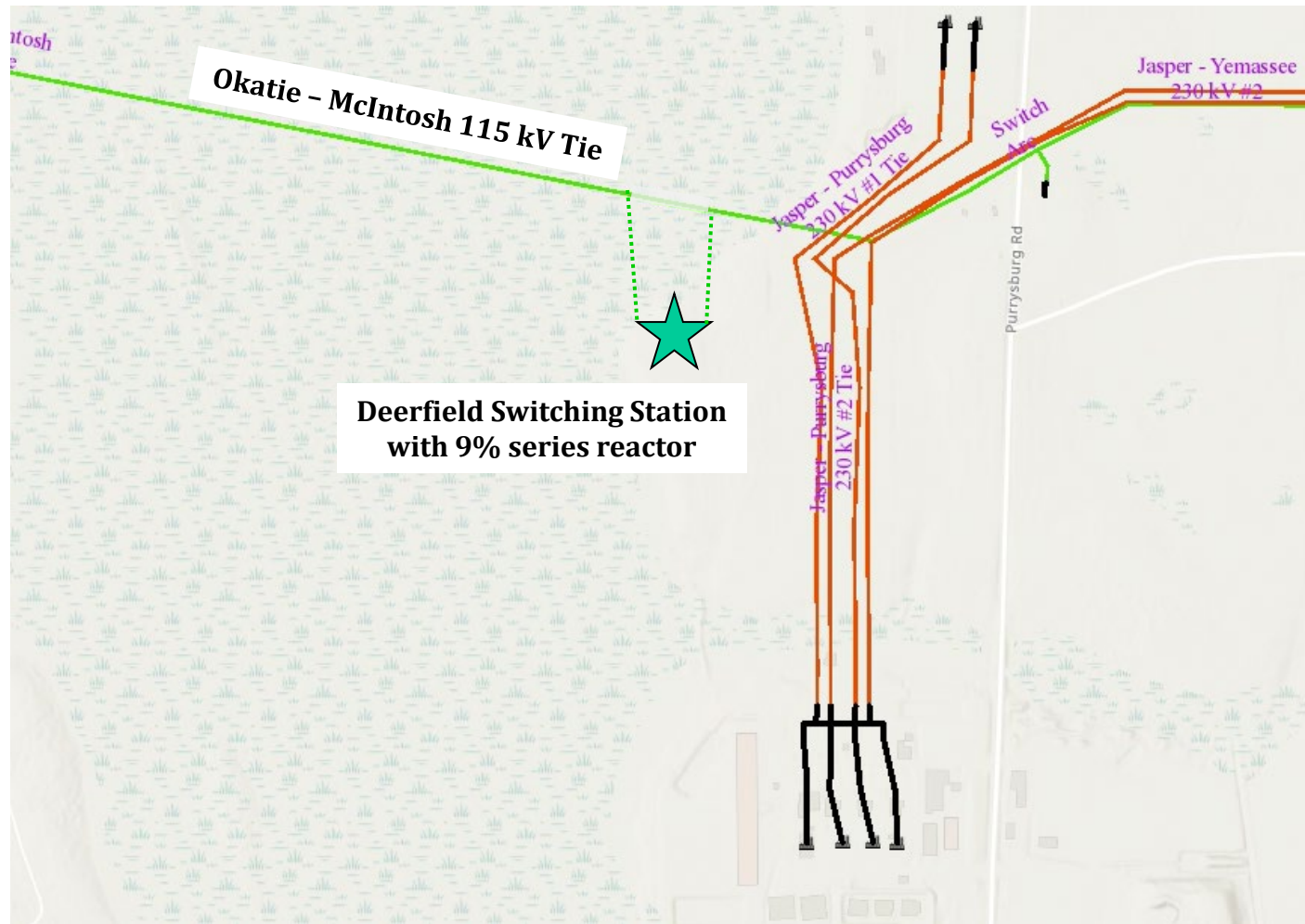
This project is needed to improve system performance and to meet NERC TPL and internal DESC Planning Criteria for reliability.

Project Status

Planned

Planned In-Service Date

December 2028



Long Savannah 115 kV Tap: Construct

Project Description

Rebuild Church Creek - Dawson 230kV line from Long Savannah to Church Creek. Include Long Savannah 115kV Tap SPDC with Church Creek - Dawson 230kV from Long Savannah to tap point with Church Creek - Ravenel (BEC) 115kV Line and SPSC from Tap Point to Church Creek. Long Savannah will be fed from Church Creek - Ravenel (BEC) 115 kV.

Project Need

Load Growth.

Project Status

Planned

Planned In-Service Date

December 2028

Church Creek – Dawson 230 kV: Rebuild from Long Savannah to Dawson

Project Description

The remaining section of Church Creek – Dawson 230 kV needs to be rebuilt with B1272 ACSR (approximately 13.5 additional miles). The 8.5 mile section of Dawson – Faber Place 230 kV that is adjacent to Church Creek – Dawson 230 kV will also be rebuilt with B1272 ACSR.

Project Need

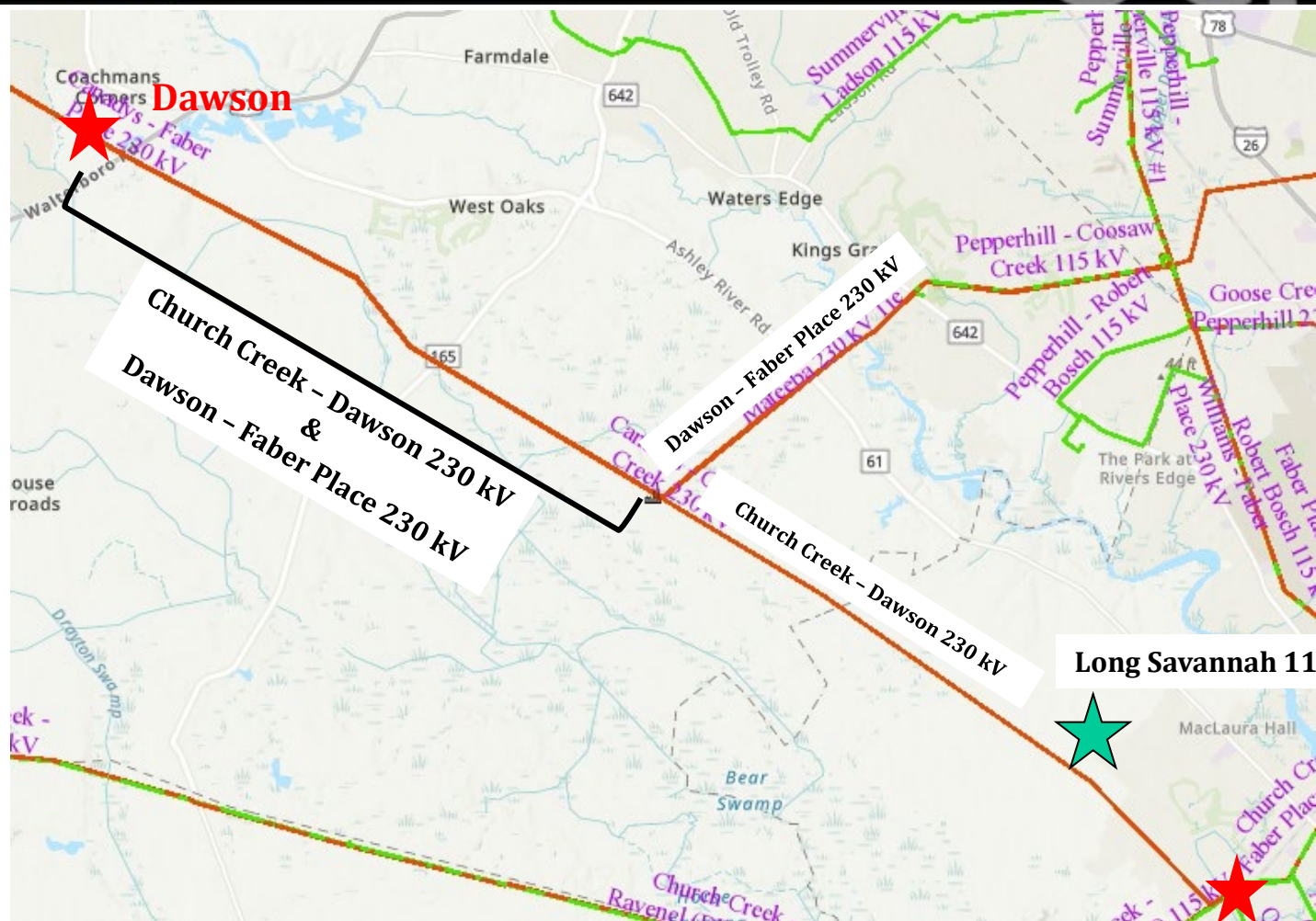
This project is needed to improve system performance and to meet NERC TPL and internal DESC Planning Criteria for reliability.

Project Status

Planned

Planned In-Service Date

December 2028



Church Creek

Winnsboro West 230-115 kV Sub and Fold-in: Construct

Project Description

Construct new 230-115 kV substation and fold in the Parr – Winnsboro 115 kV #1 and VCS1 – Killian 230 kV lines into the new substation.

Project Need

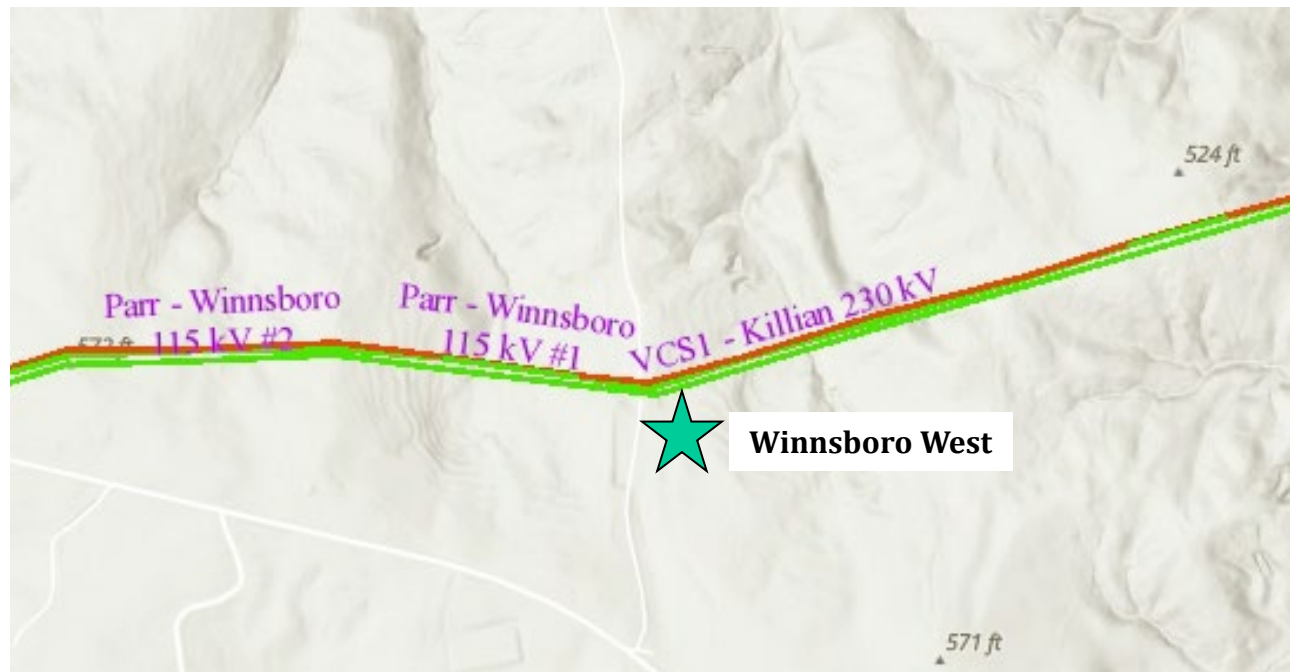
This project is needed to uprate the Parr Gas Turbines GT1 and GT2 in accordance with the DESC Transitional Cluster System Impact Study.

Project Status

Planned

Planned In-Service Date

January 2028



Canadys-Ritter 115KV-Reblid SPDC 230/115KV 1272 (Approx 18 Miles)

Project Description

Rebuild Canadys-Ritter 115 kV line as SPDC with 1272 ACSR.

Project Need

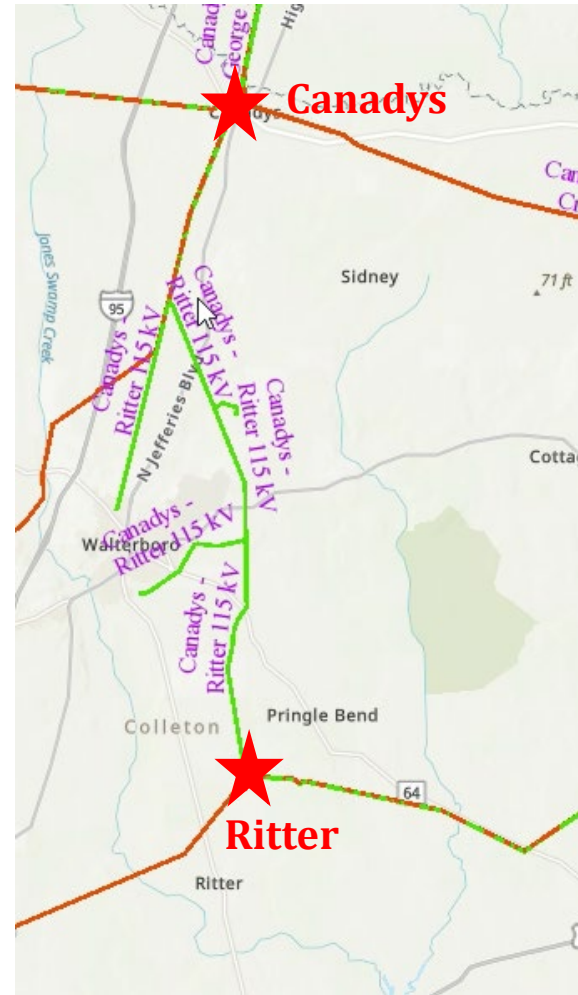
This project is needed to improve system performance and to meet NERC TPL and internal DESC Planning Criteria for reliability.

Project Status

In Progress

Planned In-Service Date

June 2028



Load growth Projects

- Scout 230kV Sub and Fold-in: Construct
- Dawson 230kV Sub and Fold-in: Construct and Rebuild
- Union Pier 115-13.8 kV Sub: Tap
- Harleyville 115KV Transmission Tap – Construct
- Sherwood Tap: Construct Tap
- Wagener 115kV Tap: Construct Tap
- Coit – Gills Creek 115kV: Construct
- Coast Guard 115kV Tap: Construct
- Long Savannah 115 kV Tap: Construct

Solar projects

- DESC SQ-1151 115kV Switching Station: Construct
 - Upgrade 336 ACSR portion of DESC SQ #1151 - Yemassee 115 kV line to 1272 ACSR.
 - Currently on HOLD based on Interconnection Status

Questions?

Santee Cooper Major Transmission Expansion Plans

Chris May

Transmission Projects 2026-2030

Project Title	In-service Date
Reconductor Purrysburg - Mcintosh 230 kV tie lines	5/1/2026
Bluffton Station Improvements	11/1/2026
Indian Field-Wassamassaw 230 kV Line	12/1/2026
Indian Field 230-115 kV Substation	12/1/2026
Cross - Wassamassaw 230 kV #2 Line	6/1/2027
Purrysburg Station Improvements	6/1/2027
Varnville 230-115-69 kV Substation Upgrades	12/1/2028
Varnville - Indian Field 230 kV line	6/1/2029
Rebuild Kingstree-Hemingway 115 kV Line as a Double Circuit 230/115 kV Line	6/1/2029
Marion - Red Bluff 230 kV line	12/1/2029
Yemassee - Varnville 230 kV line Rebuild	12/1/2029
Cross - Jefferies #2 230 kV Line	6/1/2030

Reconductor Purrysburg-McIntosh 230 kV Tie Lines

Project Description

Reconductor the existing Purrysburg-McIntosh 230 kV tie lines with bundled 1272 “Bittern” ACSS conductor.

Project Need

Reconductoring the Purrysburg-McIntosh 230 kV tie lines will mitigate thermal loading exceedances under contingency conditions and increase system transfer capability.

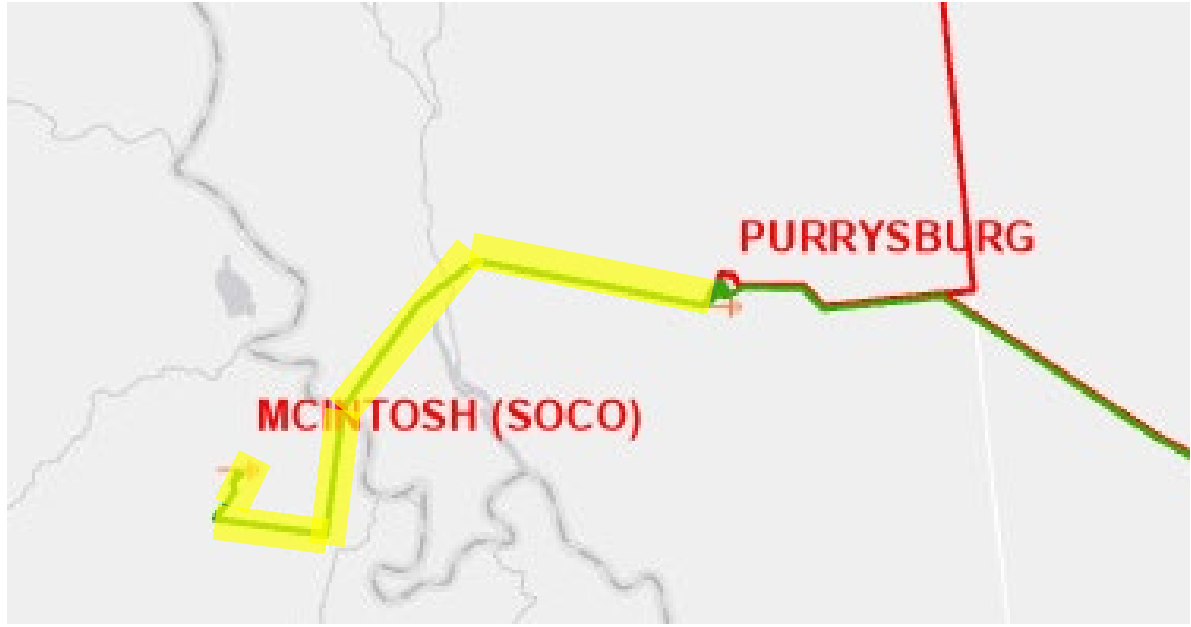
Project Status

Committed

Planned In-Service Date

December 2026

Reconductor Purrysburg-McIntosh 230 kV Tie Lines



Indian Field – Wassamassaw 230 kV Line

Project Description

Construct a 230 kV transmission line from the proposed Indian Field 230-115 kV Substation to the Wassamassaw 230-115 kV Substation. Design and construct with bundled 1272 ACSR conductor rated for 2,400 Ampere continuous operation at 230kV.

Project Need

This 230 kV line and the proposed Indian Field 230-115 kV substation together provides support for the load growth in the Southern area. In addition, with the proposed Indian Field – Varnville 230 kV line, this project establishes an additional network path required to support economic power transfer from the Southern interface toward the load center.

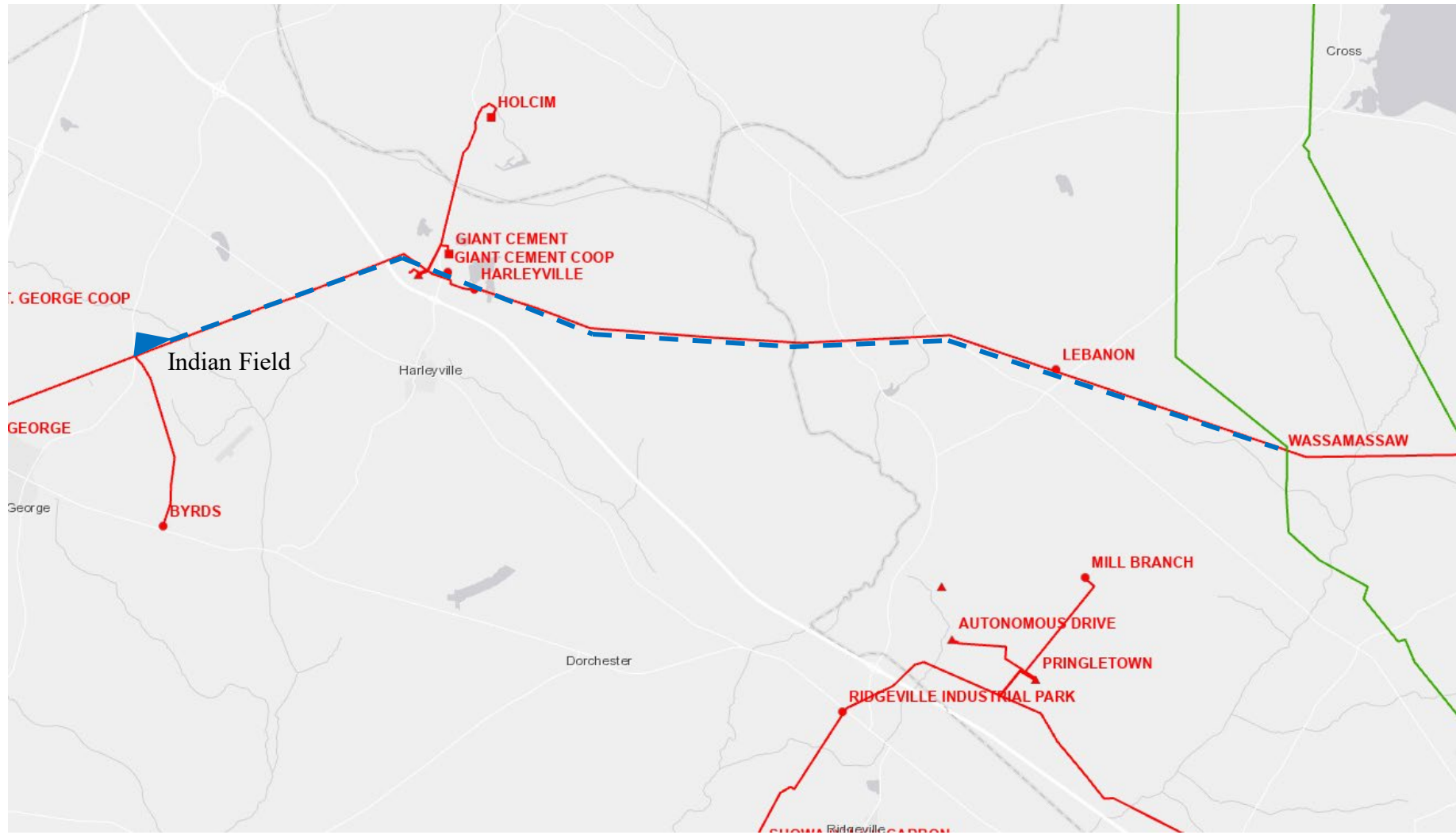
Project Status

Committed

Planned In-Service Date

December 2026

Indian Field – Wassamassaw 230 kV Line



Cross – Wassamassaw 230 kV #2 Line

Project Description

Construct a second 230 kV transmission line, approximately 18.3 miles in length, from the Cross 230 kV Switchyard to the Wassamassaw 230-115 kV Substation along existing transmission right-of-way and using pre-existing double-circuit structures where possible

Project Need

Adding a second Cross – Wassamassaw 230 kV line will mitigate thermal loading exceedances under contingency conditions. These exceedances violates planning criteria and does not meet NERC transmission planning reliability standard.

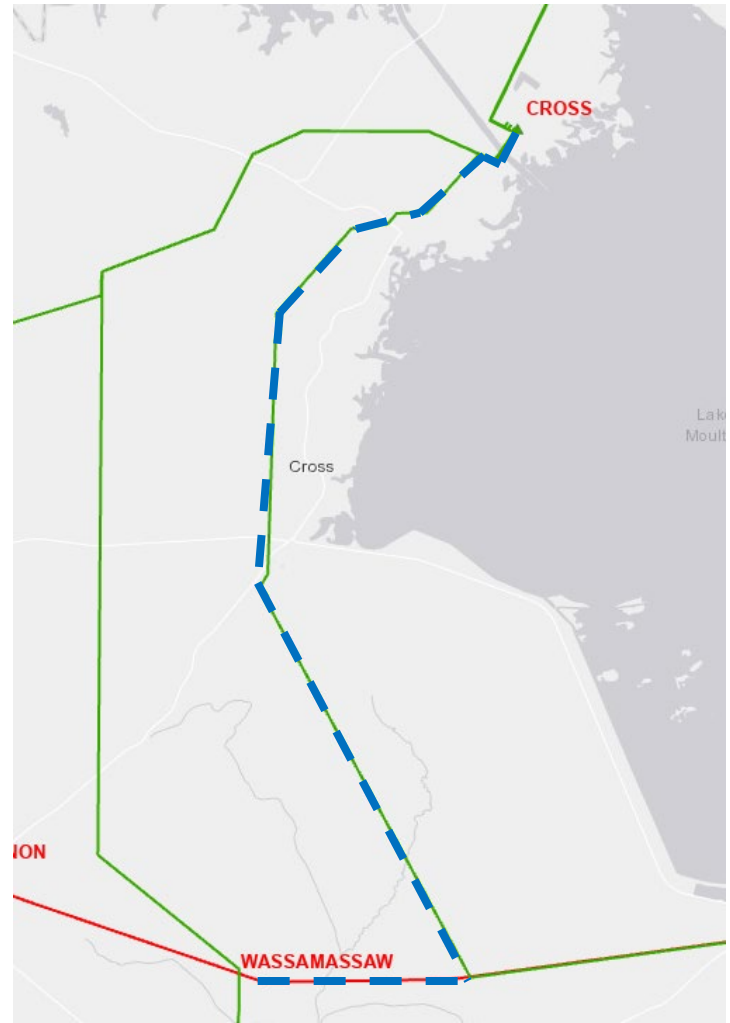
Project Status

Committed

Planned In-Service Date

June 2027

Cross – Wassamassaw 230 kV #2 line



Indian Field 230-115 kV Substation

Project Description

Fold in the existing Harleyville – St. George 115 kV line into the new Indian Field 230-115 kV substation. The existing Byrds Tap 115 kV line will be terminated on the 115 kV bus #1 at the new Indian Field 230-115kV substation. A new 115 kV transmission line will be built as a 230/115 kV double circuit line for future 230 kV projects from St. George 115 kV Switching Station to the new Indian Field 230-115kV substation.

Project Need

The new Indian Field substation will support the Southern Area load growth and enable additional 230 kV network expansion in the area.

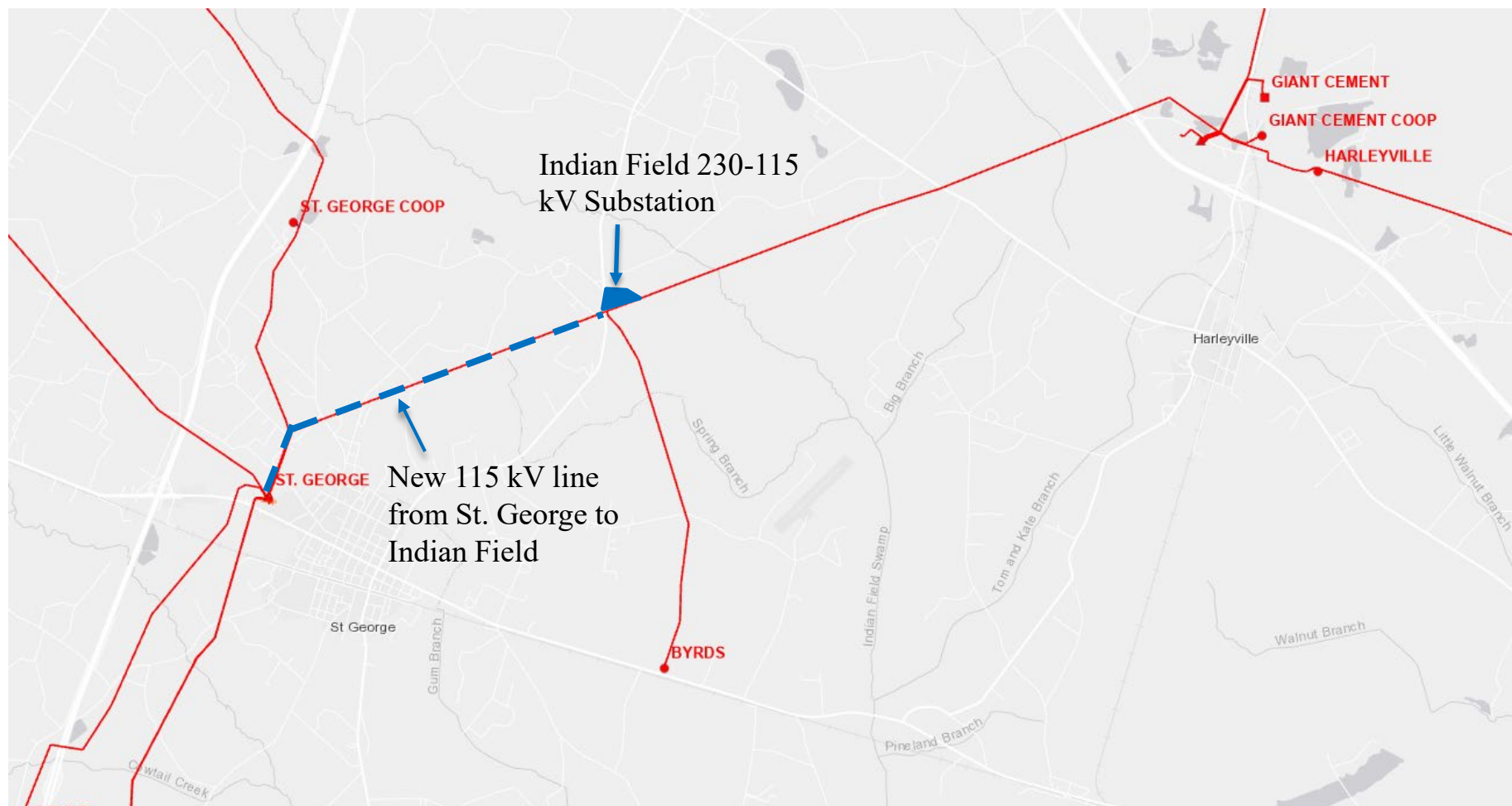
Project Status

Committed

Planned In-Service Date

December 2026

Indian Field 230-115 kV Substation



Varnville – Indian Field 230 kV Line

Project Description

Construct a 230 kV transmission line (approximately 38 miles) from the Varnville 230-115 kV Substation to the proposed Indian Field 230-115 kV Substation. Rebuild the existing Bells Crossroads – Varnville 115 kV Line for 230/115 kV double-circuit on the existing right-of-way. Rebuild the St. George – Bells Crossroads (via Smoaks) 115 kV Line #2 for 230/115 kV double-circuit on the existing right-of-way until the 230 kV line reaches just outside of St George 115 kV Switching Station.

Project Need

Planning studies indicate this project and Indian Field-Wassamassaw 230 kV line project is necessary to add an additional path for bulk power transmission from Southern region to Eastern region. Existing Southern path via Yemassee and Mateeba is a contingency constraint seen in the near-term and long-term planning studies.

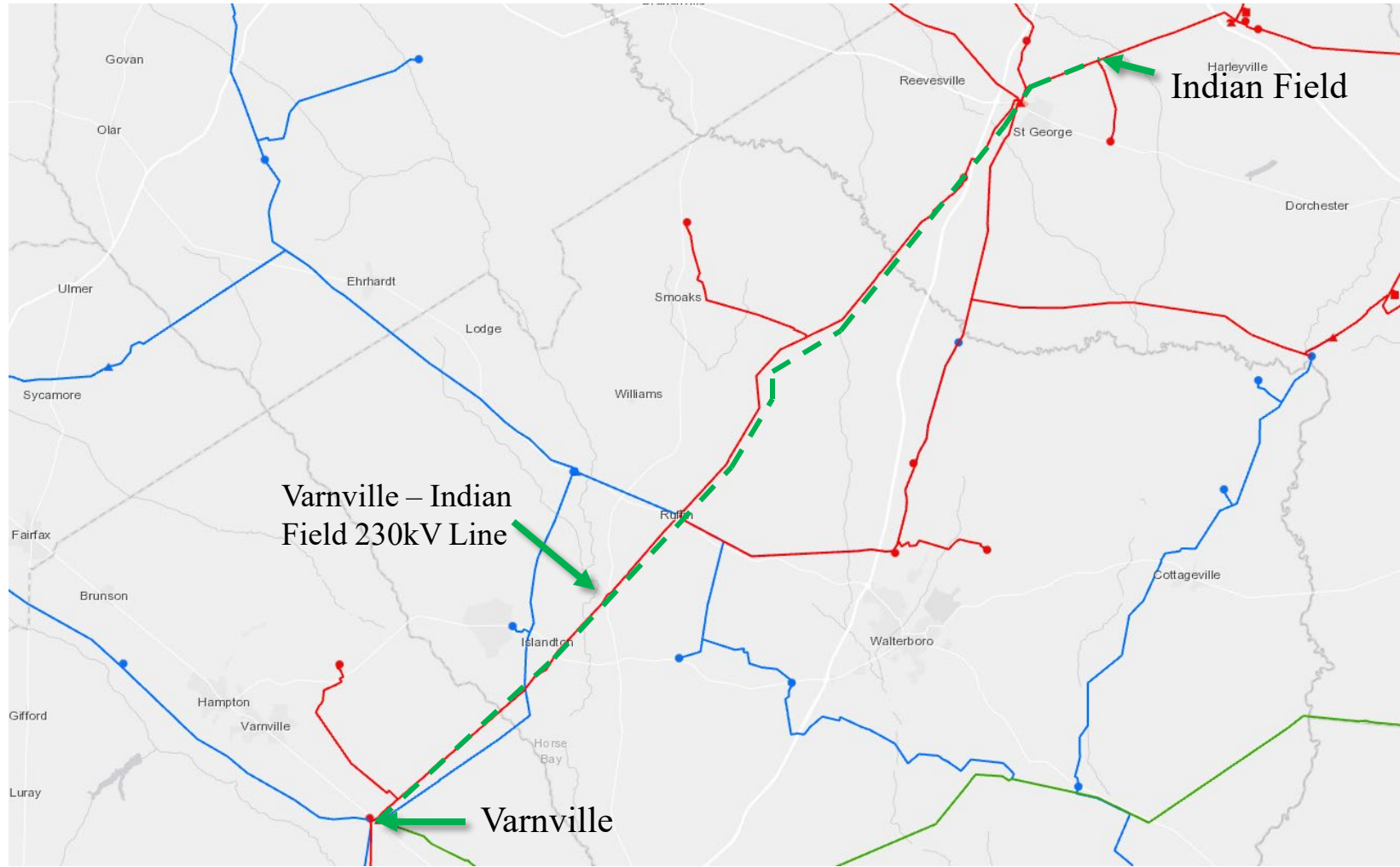
Project Status

Committed

Planned In-Service Date

June 2029

Varnville – Indian Field 230 kV Line



Rebuild Kingstree – Hemingway 115 kV Line as a Double Circuit 230/115 kV Line

Project Description

Construct a second 230 kV line, approximately 22 miles, from the Kingstree 230 kV Switching Station to the Hemingway 230-115 kV Substation by rebuilding the existing Kingstree – Hemingway 115 kV line for double circuit 230/115 kV construction.

Project Need

This additional 230 kV line from Kingstree to Hemingway will help provide thermal loading relief and voltage support for the eastern area. This line also creates an additional path to the eastern area.

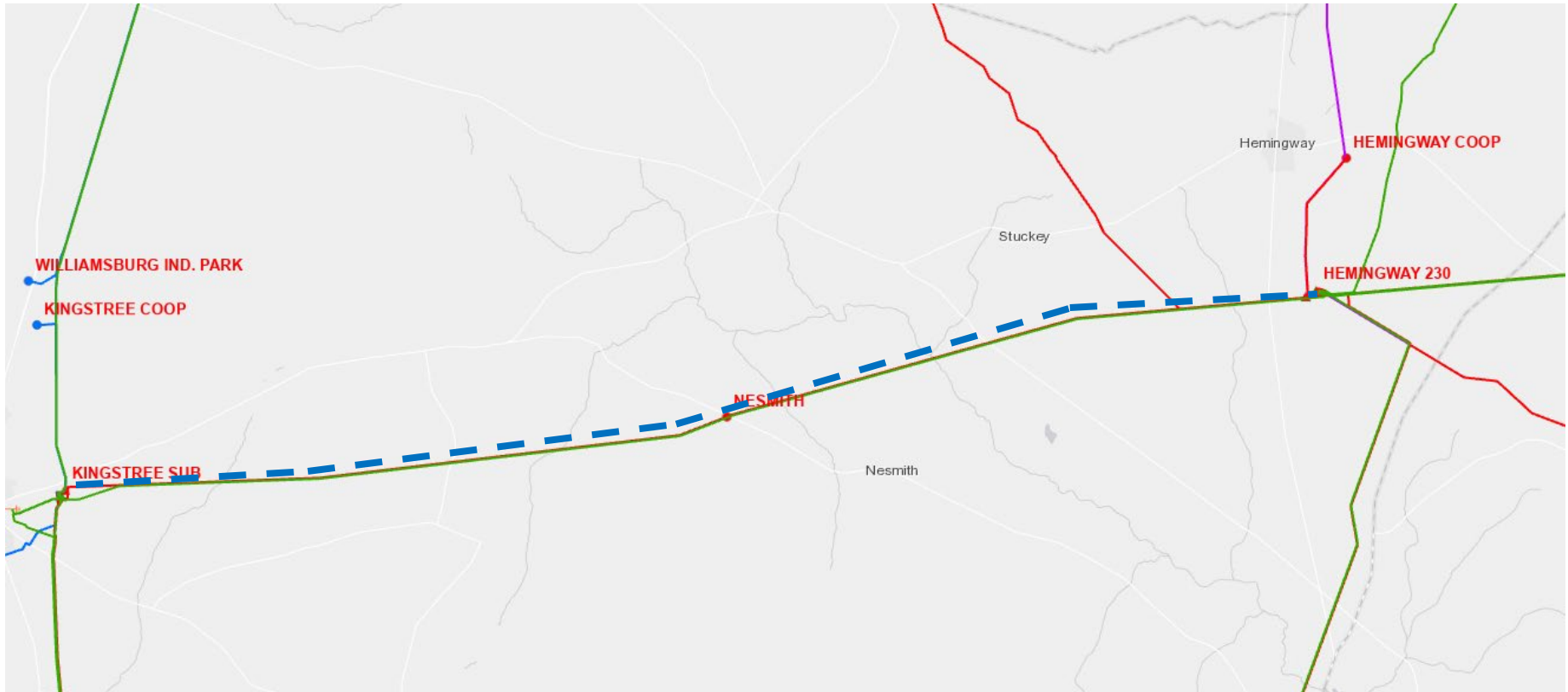
Project Status

Committed

Planned In-Service Date

June 2029

Kingstree – Hemingway 230/115 kV line



Marion – Red Bluff 230 kV Line

Project Description

Construct a new 230 kV transmission line from the Marion 230-115/230-69/115-69 kV Substation to the Red Bluff 230-115 kV Substation with bundled 1272 ACSR conductor rated for 2400 Ampere minimum continuous operation at 230 kV. Existing right-of-way will be used where possible, but new right-of-way will need to be obtained.

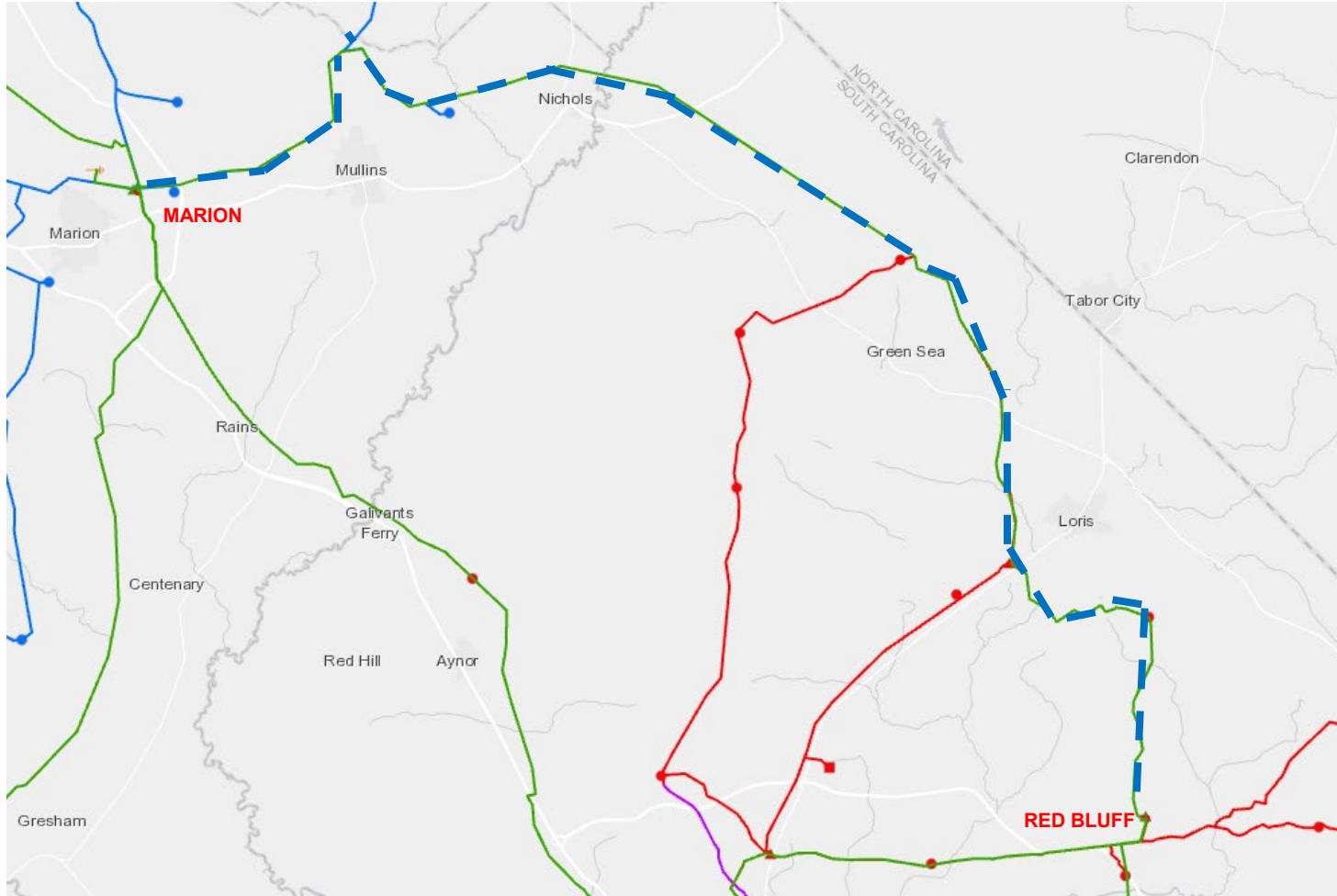
Project Need

Planning assessments have identified thermal loading and voltage violations under contingency conditions in the eastern region of the transmission system that are mitigated by the addition of a Marion – Red Bluff 230 kV Line. This 230 kV line will also provide an additional source for a highly concentrated load area of the Santee Cooper system that continues to see significant load growth.

Project Status Committed

Planned In-Service Date December 2029

Marion – Red Bluff 230 kV line



Yemassee-Varnville 230 kV Rebuild

Project Description

Rebuild the existing Yemassee-Varnville 230 kV line as twin circuits (approximately 10 miles) on existing right of way. Both circuits will be constructed with bundled 1272 “Bittern” ACSS conductor. One newly rebuilt circuit will terminate at Varnville 230-115 kV Substation and the other newly constructed circuit will connect to Varnville-Indian Field 230 kV line, establishing a Yemassee-Indian Field 230 kV line.

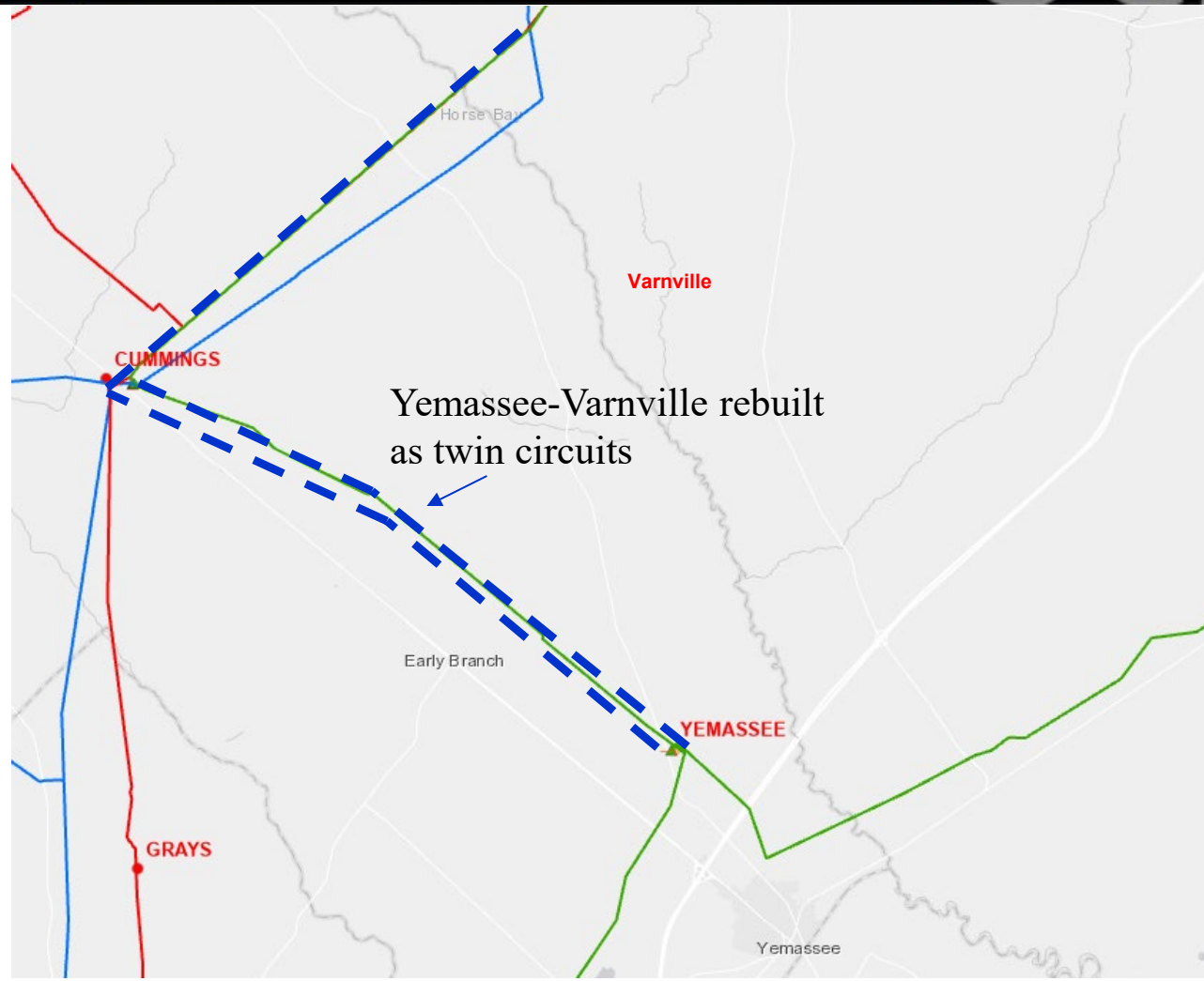
Project Need

Planning assessments have identified thermal constraints under certain contingency & generation scenarios that occur in the southern region of the transmission system that mitigated by rebuilding the Yemassee-Varnville 230 kV line.

Project Status Approved

Planned In-Service Date December 2029

Rebuild Yemassee-Varnville 230 kV line



Cross-Jefferies #2 230 kV line

Project Description

Construct an approximately 23 mile long 230 kV line from Cross 230 kV Switchyard to Jefferies 230-115 kV substation with bundled 1272 “Bittern” ACSR. Approximately 18 miles of the line will be built as 230/115 kV double circuit by rebuilding the Jefferies-Pinewood 115 kV line.

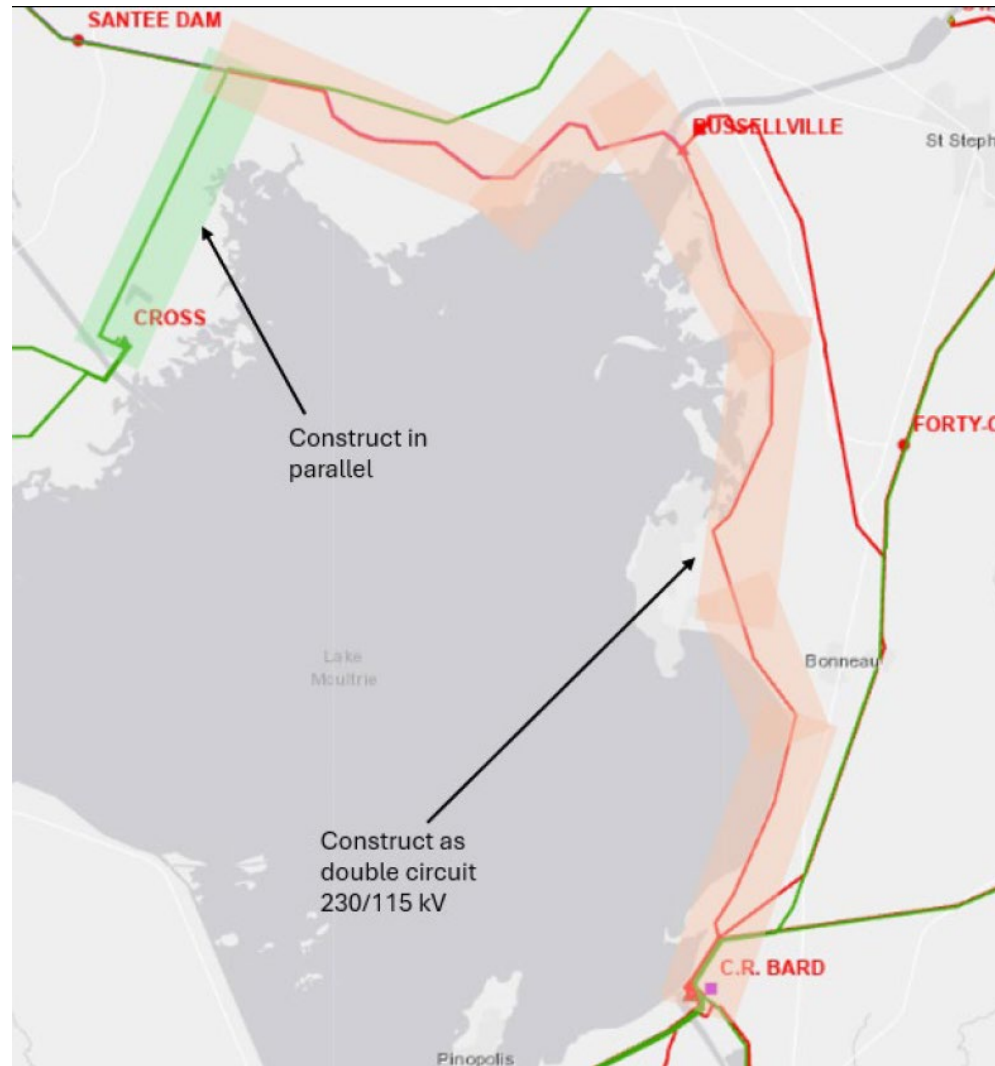
Project Need

Planning assessments have identified thermal constraints under certain contingency scenarios that occur in the southern region of the transmission system that are mitigated by constructing the Cross-Jefferies #2 230 kV line.

Project Status Approved

Planned In-Service Date December 2029

Cross-Jefferies #2 230 kV line



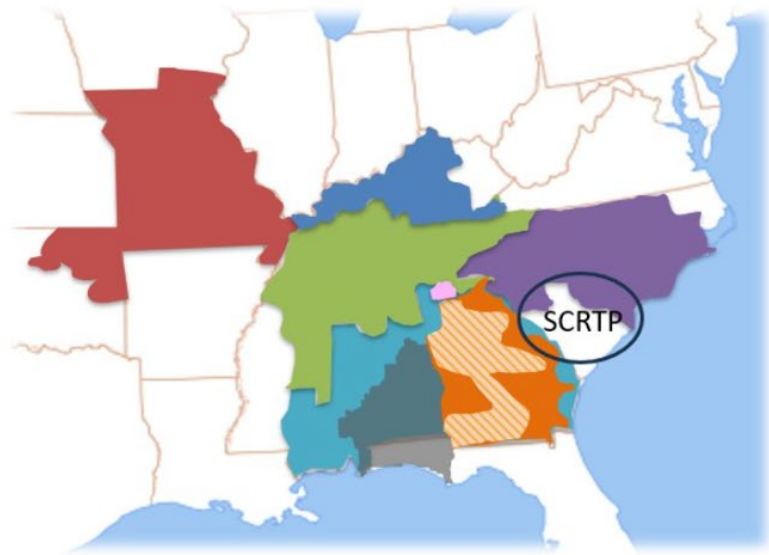
Santee Cooper Transmission Expansion Plans

Questions?

FERC Order 1920

Southeastern
Regional
TRANSMISSION PLANNING

SERTP and SCRTP



SERTP

- Associated Electric Cooperative Inc.
- Dalton
- DUKE ENERGY.
- Georgia Transmission
- LG&KJ
- MEAG POWER
- POWERSOUTH ENERGY COOPERATIVE
- Southern Company
- TVA

SCRTP

- santee cooper
- Dominion Energy

Next SCRTP Meeting

- Stakeholders will select up to 5 Economic Transmission Planning Studies
- Request Form will be posted on SCRTP website
- Review and discuss Multi-Party Assessment Studies
- SCRTP Email Distribution List will be notified
- Register online

South Carolina Regional Transmission Planning

Stakeholder Meeting

Virtual Meeting

March 11, 2026