


SERTP – 3rd Quarter Meeting

2nd RPSG Meeting

September 24th, 2024

Web Conference

Housekeeping

- The chat will be turned off, so please use the  function to ask questions.
- All attendees, please state your name and company when asking and answering questions.
- We will take for a 30-minute lunch break at 11:30am CT\12:30pm ET

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.
- SERTP Website Address:
 - www.southeasternrtp.com

Purposes & Goals of Meeting

- **Economic Planning Studies**
 - Preliminary Results
 - Stakeholder Input/Discussion
- **Miscellaneous Updates**
- **Next Meeting Activities**

SERTP Preliminary

Economic Planning Studies

Economic Planning Studies Process

- Economic Planning Studies were chosen by the Regional Planning Stakeholder Group “RPSG” in March at the 2024 SERTP 1st Quarter Meeting.
- Key study criteria, methodologies, and input assumptions were finalized in May.
- These studies represent analyses of hypothetical scenarios requested by the stakeholders and **do not** represent an actual transmission need or commitment to build.

Economic Planning Studies Process

- **SERTP Sponsors identify the transmission requirements needed to move large amounts of power above and beyond existing long-term, firm transmission service commitments**
 - Analysis are consistent with company-specific planning criteria
- **1898 & Co. was contracted to perform the analysis and, along with sponsors, develop potential strategic solutions for these studies**
- **Models used to perform the analysis incorporate the load forecasts and resource decisions as provided by LSEs**
 - Power flow models are made available to stakeholders to perform additional screens or analysis

Economic Planning Studies

- **MISO South/FRCC to SOCO**
 - 4,000 MW (2029 Summer Peak)
- **PJM to DEC/DEP**
 - 2,000 MW (2026 Summer Peak)
- **MISO North to SOCO**
 - 10,000 MW (2034 Summer Peak)
- **SPP/MISO North to AECI**
 - 2,500 MW (2029 Summer Peak)
- **DEC/SOCO to Santee Cooper**
 - 2,400 MW (2034 Winter Peak)

Power Flow Cases Utilized

- **Load Flow Cases:**
 - 2024 Series Version 1 SERTP Regional Models
 - 2026 Summer Peak
 - 2029 Summer Peak
 - 2034 Summer Peak
 - 2034 Winter Peak

Preliminary Report Components

- **The SERTP reported, at a minimum, results on elements of 115 kV and greater:**
 - Thermal loadings greater than 90% for facilities that are negatively (+5%) impacted by the proposed transfers
 - Voltages appropriate to each participating transmission owner’s planning criteria
 - Overloaded facilities that had a low response to the requested transfer were excluded and issues identified that are local in nature were also excluded
- **For each economic planning study request, the results of that study include:**
 1. Limit(s) to the transfer
 2. Potential transmission enhancement(s) to address the limit(s)
 3. Planning-level cost estimates and in-service dates for the potential transmission enhancement(s)

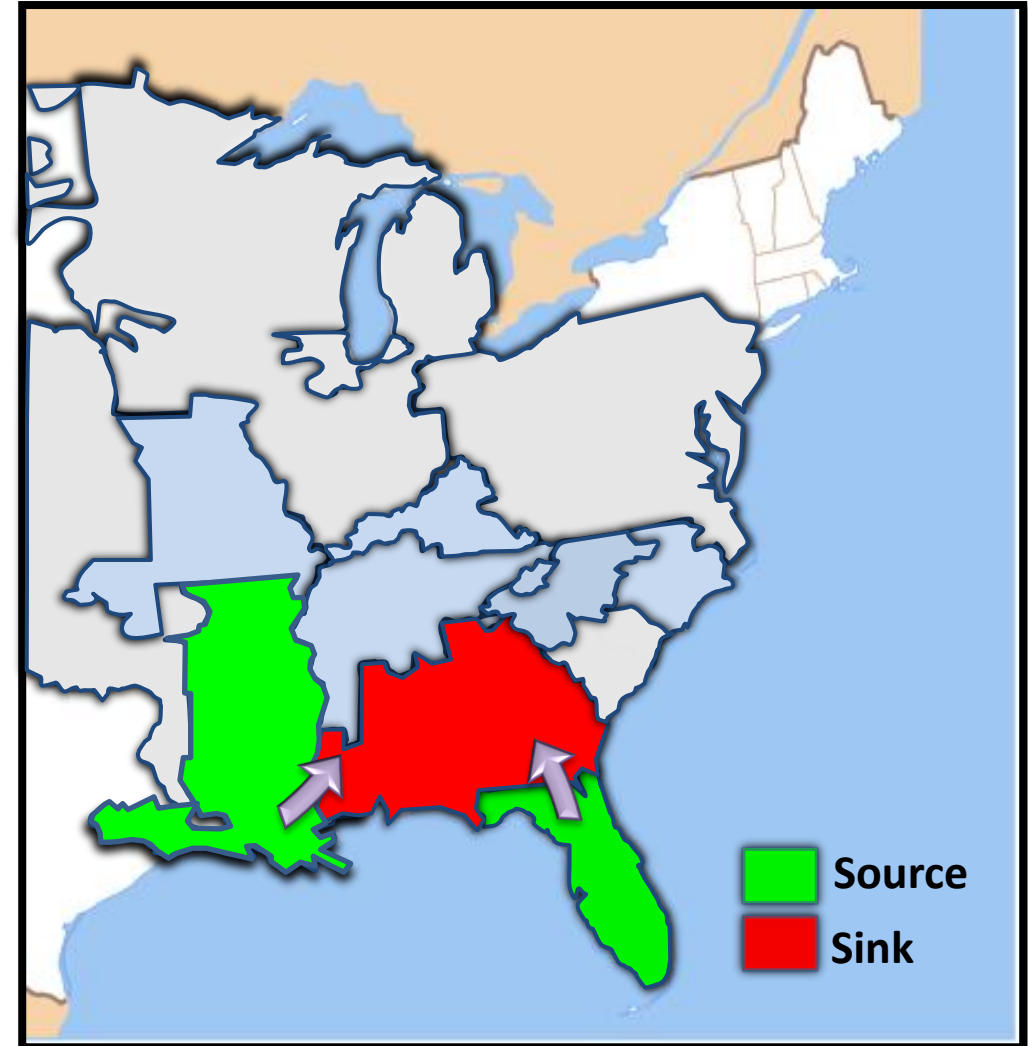
Process Information

- The following information depicts potential enhancements for the proposed transfer levels above and beyond existing, firm commitments. Therefore, this information does not represent a commitment to proceed with the recommended enhancements nor implies that the recommended enhancements could be implemented by the study dates.
- These potential solutions only address constraints identified within the SERTP Sponsors' areas that are associated with the proposed transfers. Other Balancing Areas were not monitored which could result in additional limitations and required system enhancements.
- These are preliminary results to address the identified issues and could be refined for the final report and presentation.

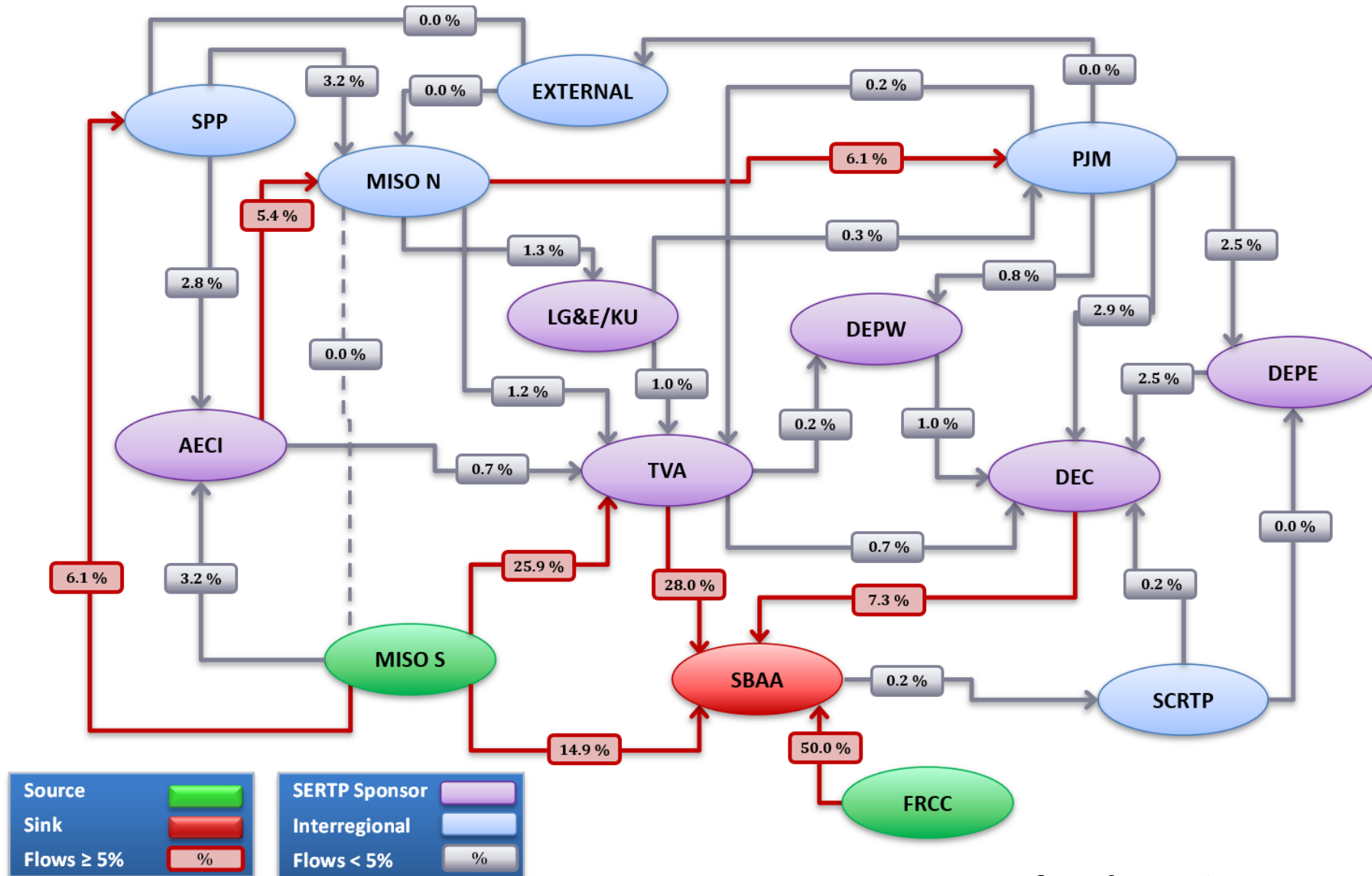
Economic Planning Studies – Preliminary Results MISO South/FRCC to SOCO – 4,000 MW

Study Assumptions

- **Source**: Generation within MISO South and FRCC
- **Sink**: Generation within SOCO
- **Transfer Type**: Generation to Generation
- **Year**: 2029
- **Load Level**: Summer Peak

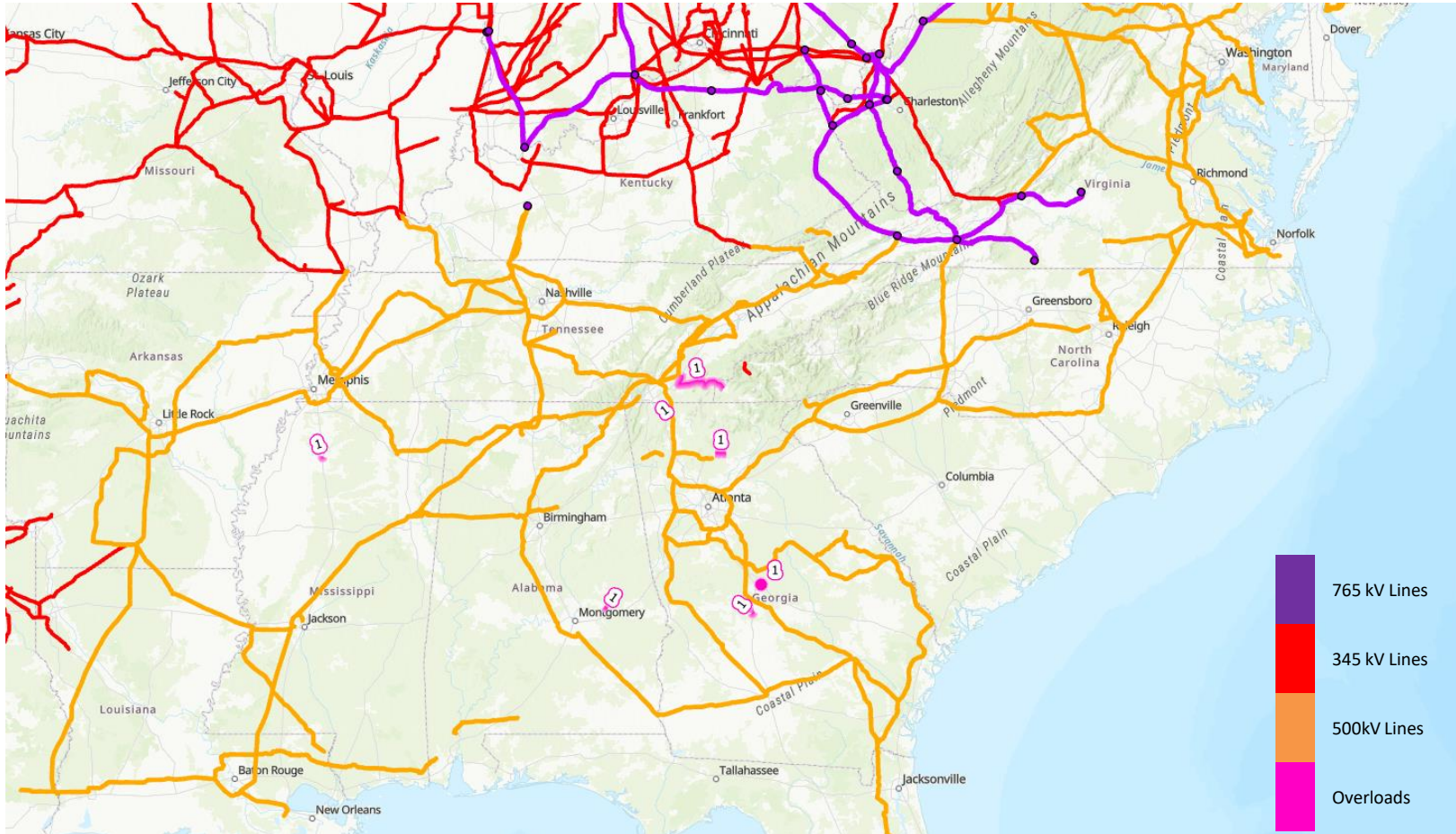


Preliminary MISO S/FRCC to SOCO – 4,000 MW



Transfer Flow Diagram (% of Total Transfer)

Transmission System Impacts - *SERTP*



Facility Violations:

115 kV – 5

161 kV – 1

230/115 kV - 2

Potential Enhancements Identified: 2

Violations Addressed by Existing
Projects: 5

SERTP TOTAL (\$2024) = \$1.9 Million

Potential Enhancements Identified

Item	Potential Enhancement	Area	Planning Level Cost Estimate
P1	Advancement of Existing Project: (DU) Rebuild the Dawson Crossing-Nelson (White) 115kV line from Dawson Crossing-Etowah-Reavis Mountain with 200C 1351 ACSS conductor and replace limiting elements in substations along the line.	SBAA	\$1,600,000
P2	Uprate the jumper at the Charleston 161kV substation.	TVA	\$321,000
TOTAL (\$2024)			\$1.9 Million⁽¹⁾

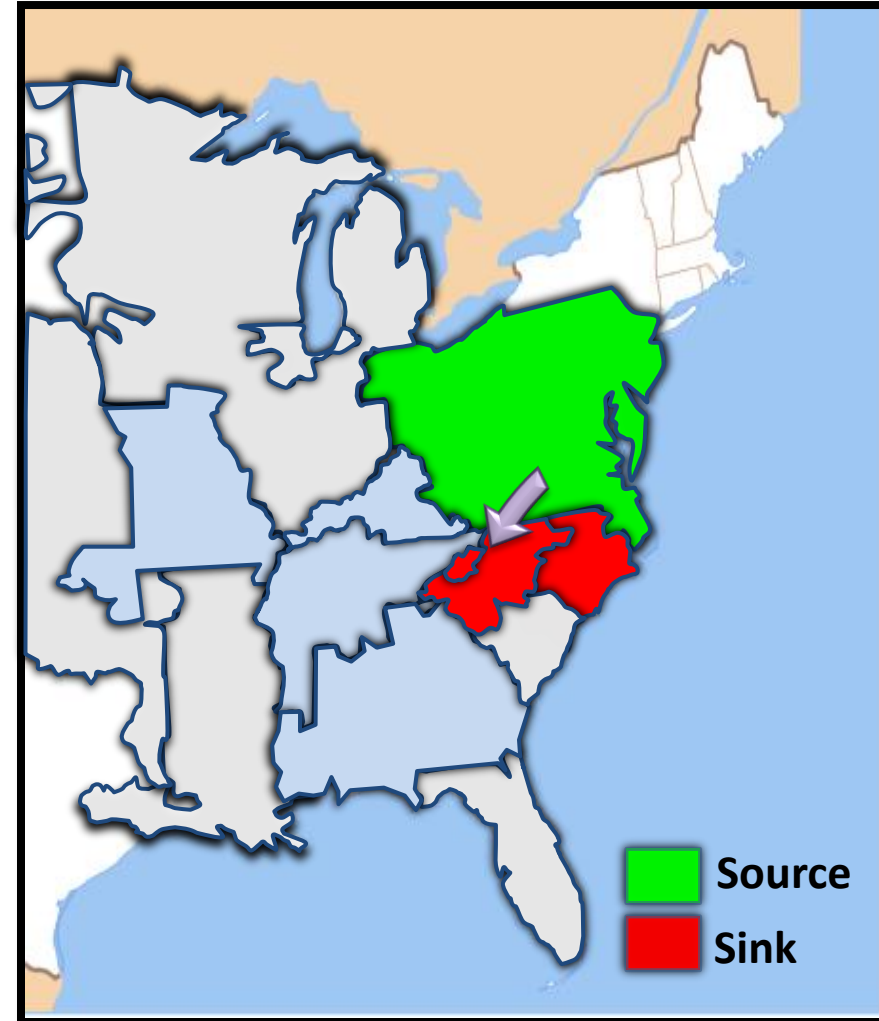
(1) Total planning level cost estimate does not include the cost of projects that are included in SERTP Sponsors' expansion plans and are scheduled to be completed by June 1st of the study year. The studied transfer depends on these projects being in-service, and the cost to support the study transfer could be greater than the total shown above if any of these projects are delayed or cancelled.

Economic Planning Studies – Preliminary Results

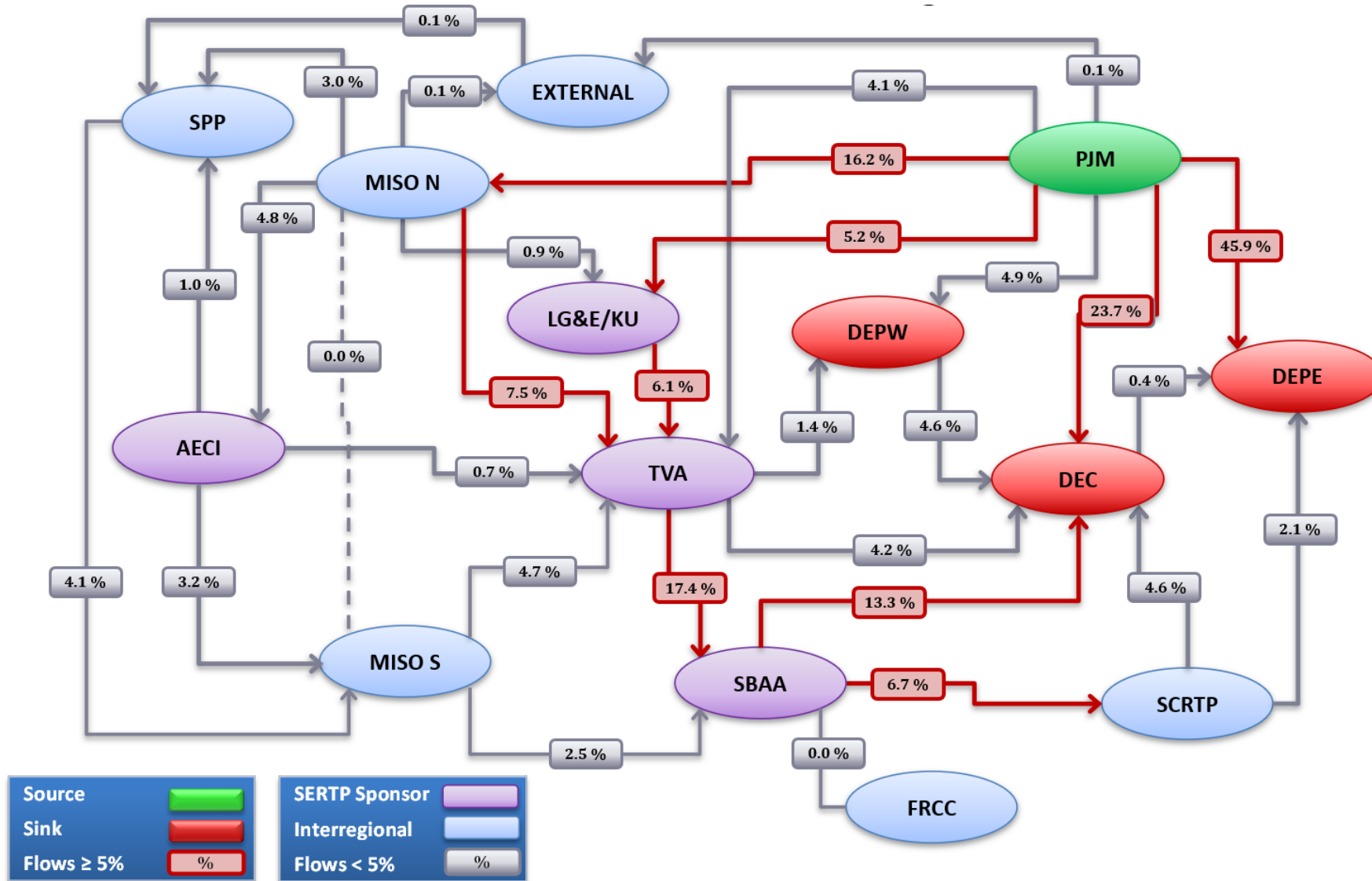
PJM to DEC/DEP – 2,000 MW

Study Assumptions

- **Source**: Generation Scale within PJM
- **Sink**: Generation Scale within DEC/DEP
- **Transfer Type**: Generation to Generation
- **Year**: 2026
- **Load Level**: Summer Peak

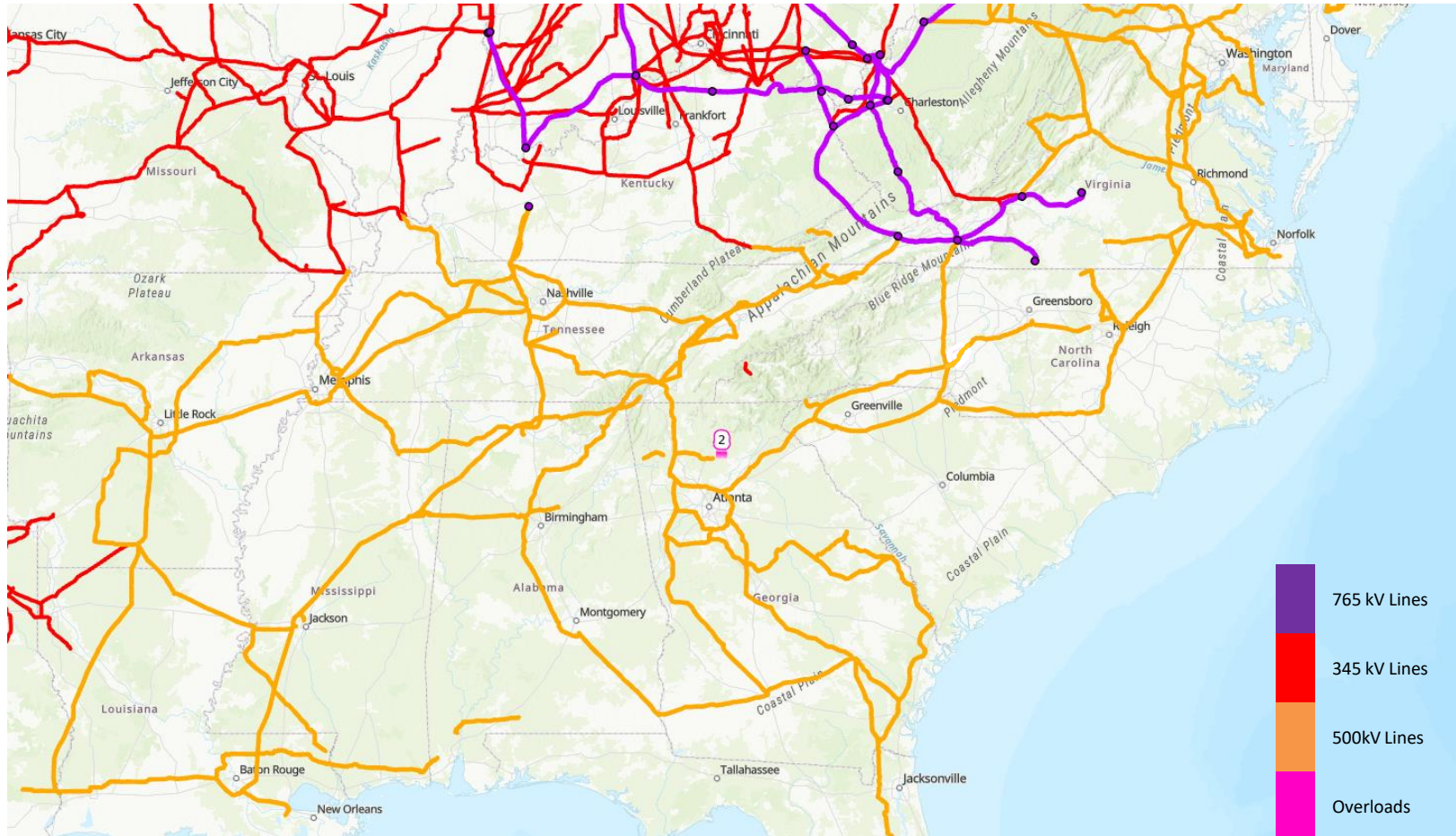


Preliminary PJM – DEC/DEP 2,000 MW



Transfer Flow Diagram (% of Total Transfer)

Transmission System Impacts - SERTP



Facility Violations:
115 kV – 2

Potential Enhancements Identified: 1
Violations Addressed by Existing
Projects: 0

SERTP TOTAL (\$2024) = \$7 Million

Potential Enhancements Identified

Item	Potential Enhancement	Area	Planning Level Cost Estimate
P1	Advancement of Existing Project: (DU) Rebuild the Dawson Crossing-Nelson (White) 115kV line from Dawson Crossing-Etowah-Reavis Mountain with 200C 1351 ACSS conductor and replace limiting elements in substations along the line.	SBAA	\$7,000,000
TOTAL (\$2024)			\$7 Million⁽¹⁾

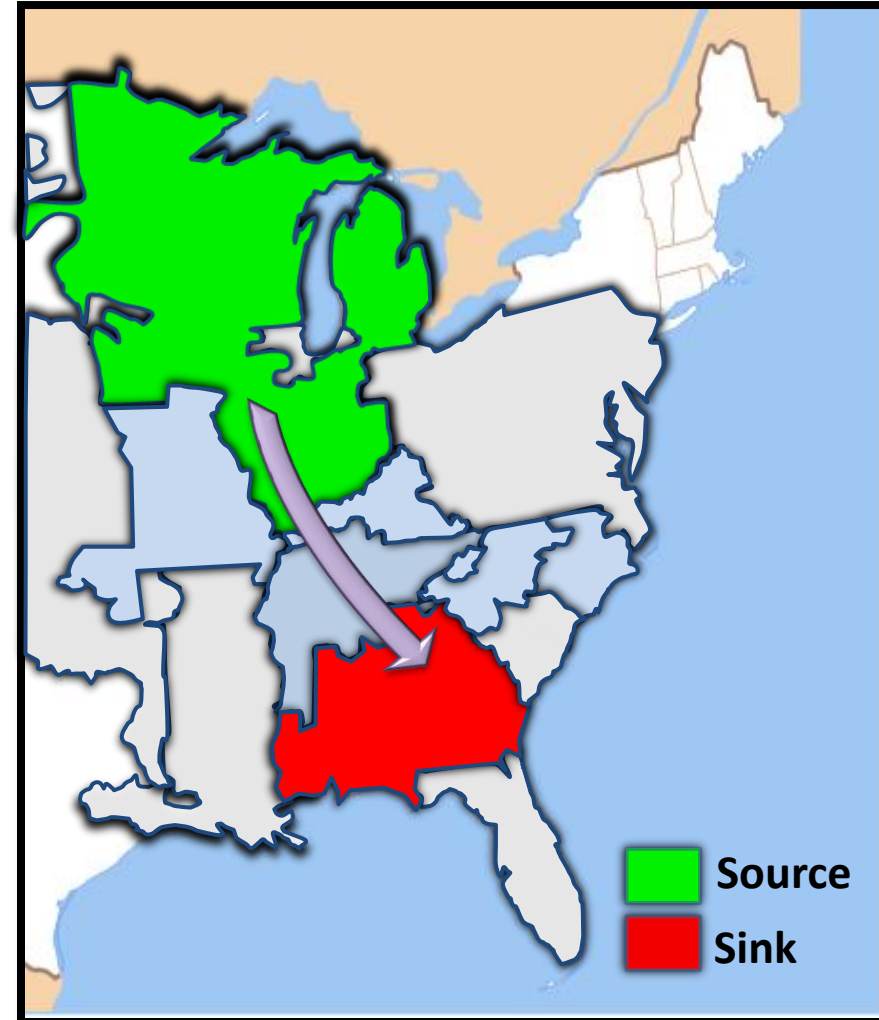
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Economic Planning Studies – Preliminary Results

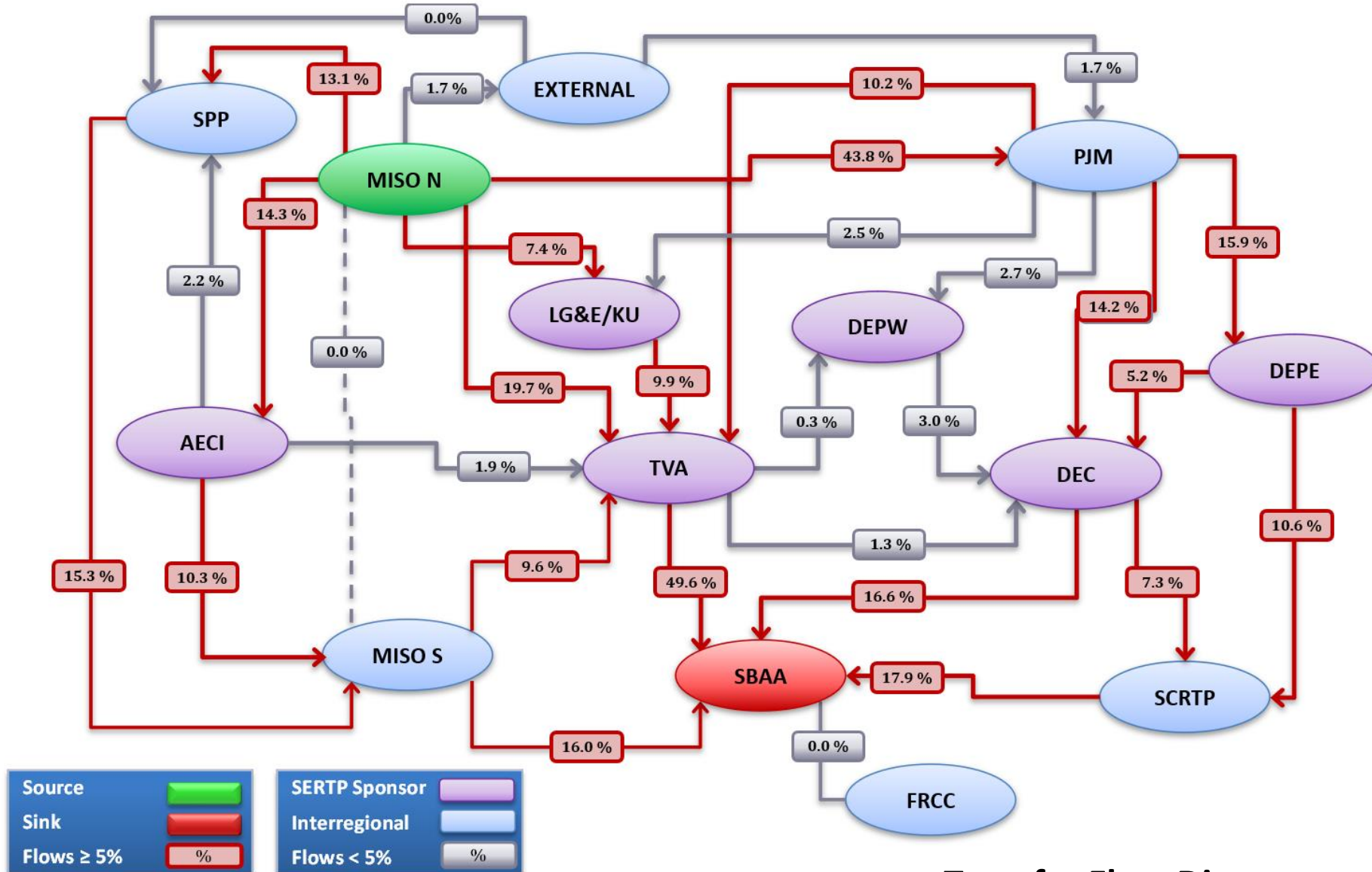
MISO N to SOCO – 10,000MW

Study Assumptions

- **Source**: Generation Scale within MISO North
- **Sink**: Generation within SOCO
- **Transfer Type**: Generation to Generation
- **Year**: 2034
- **Load Level**: Summer Peak

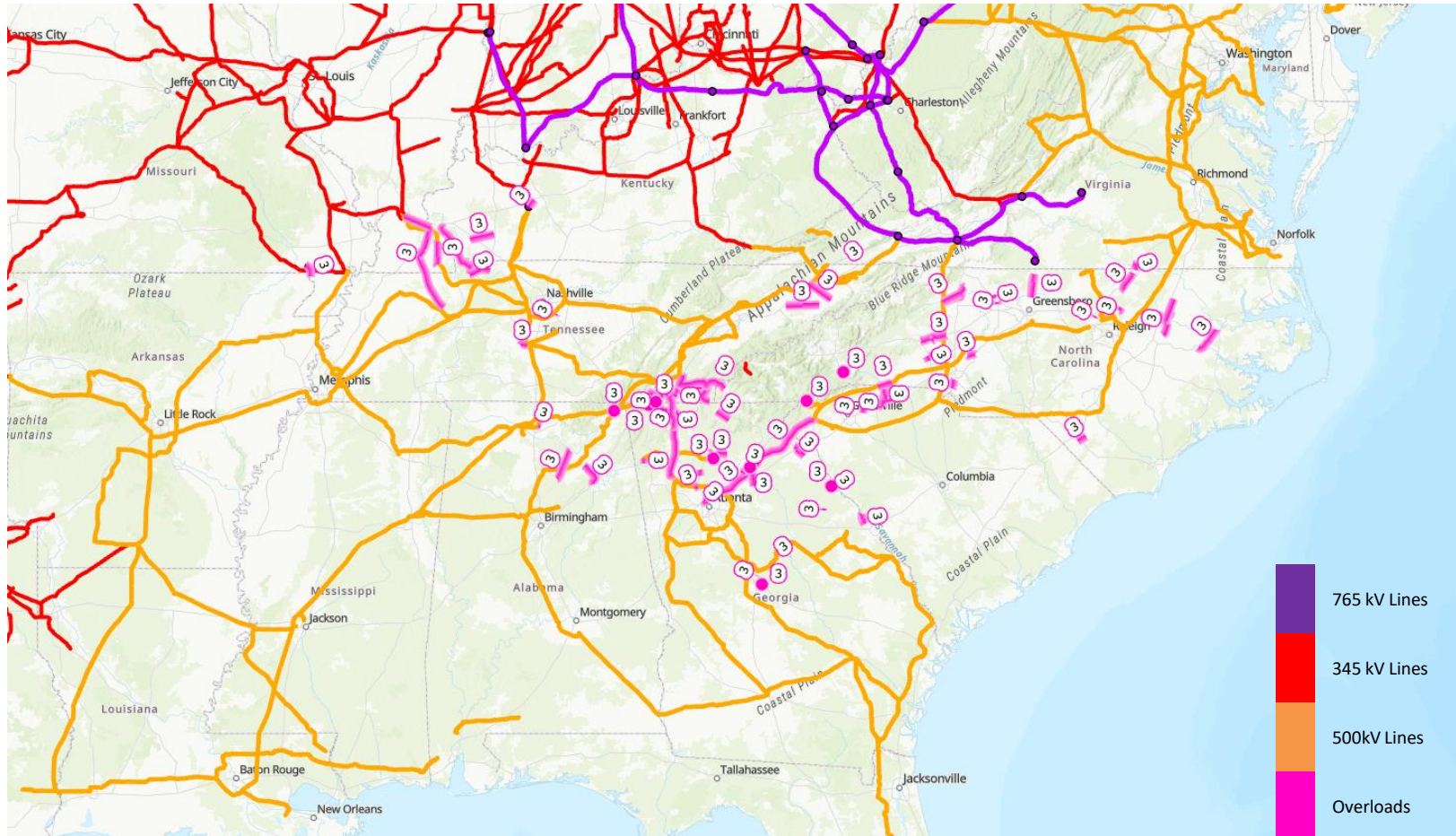


Preliminary MISO N – SOCO 10,000 MW



Transfer Flow Diagram (% of Total Transfer)

Transmission System Impacts - SERTP



Facility Violations:

100 kV – 20

115 kV – 32

138 kV – 1

161 kV – 38

230 kV – 34

500 kV – 6

230/115 kV – 3

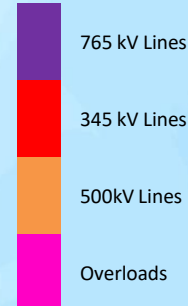
230/161 kV – 3

500/230 kV - 2

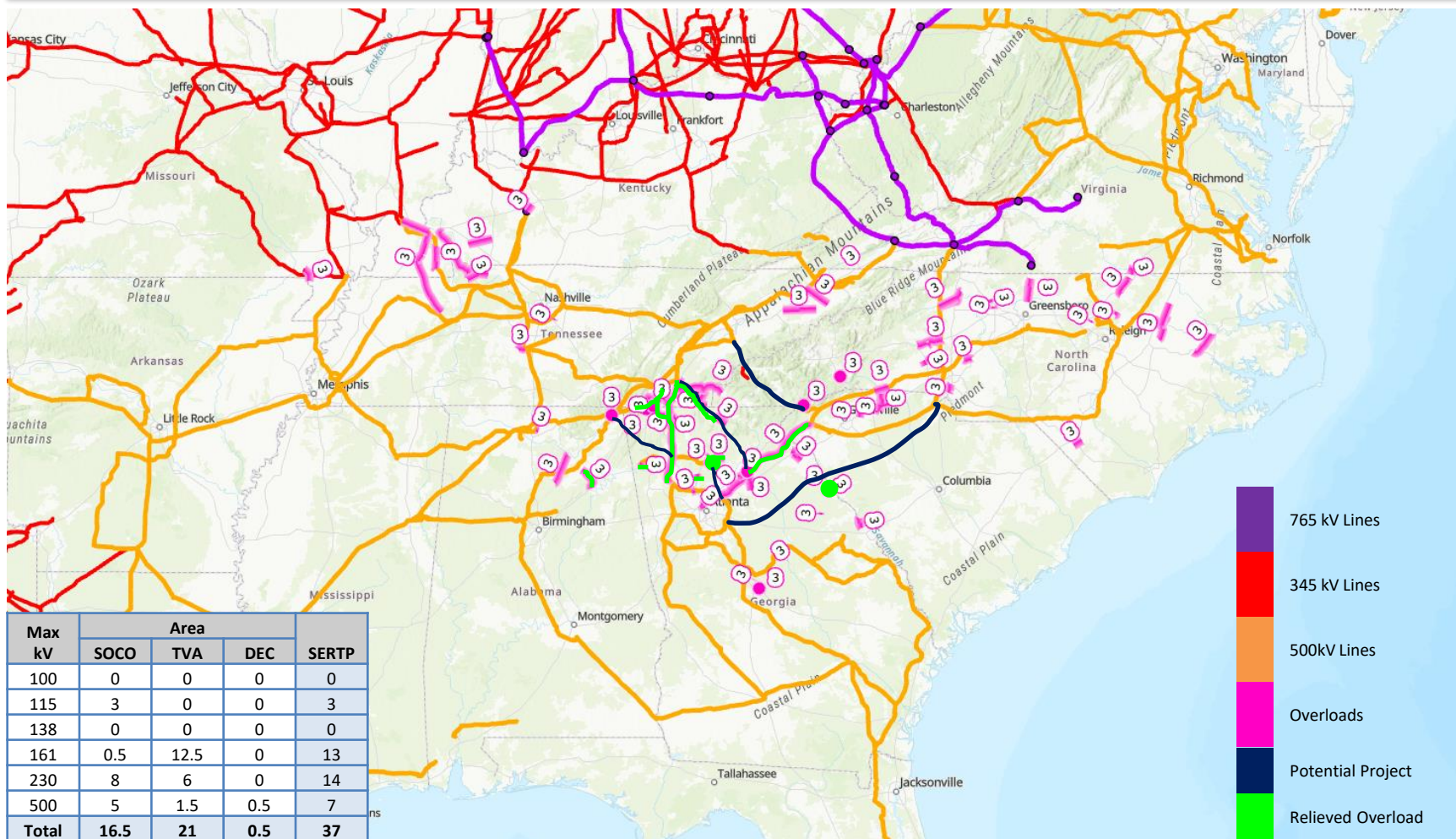
Potential Enhancements Identified: 42

Violations Addressed by Existing
Projects: 26

SERTP TOTAL (\$2024) = \$4,608 Million



Potential Strategic Solution 1 – P1



Potential Solution Description

- New Bad Creek – Alcoa 500kV line (125 miles)
- New South Hall – Hiwassee 500kV (110 miles)
- New Widows Creek – Mosteller Springs 500kV (75 miles)
- New Newport - East Walton 500kV (220 miles)
- New Klondike – East Walton 500 kV line (54 miles)
- New McGrau Ford – Norcross 500 kV line (28 miles)

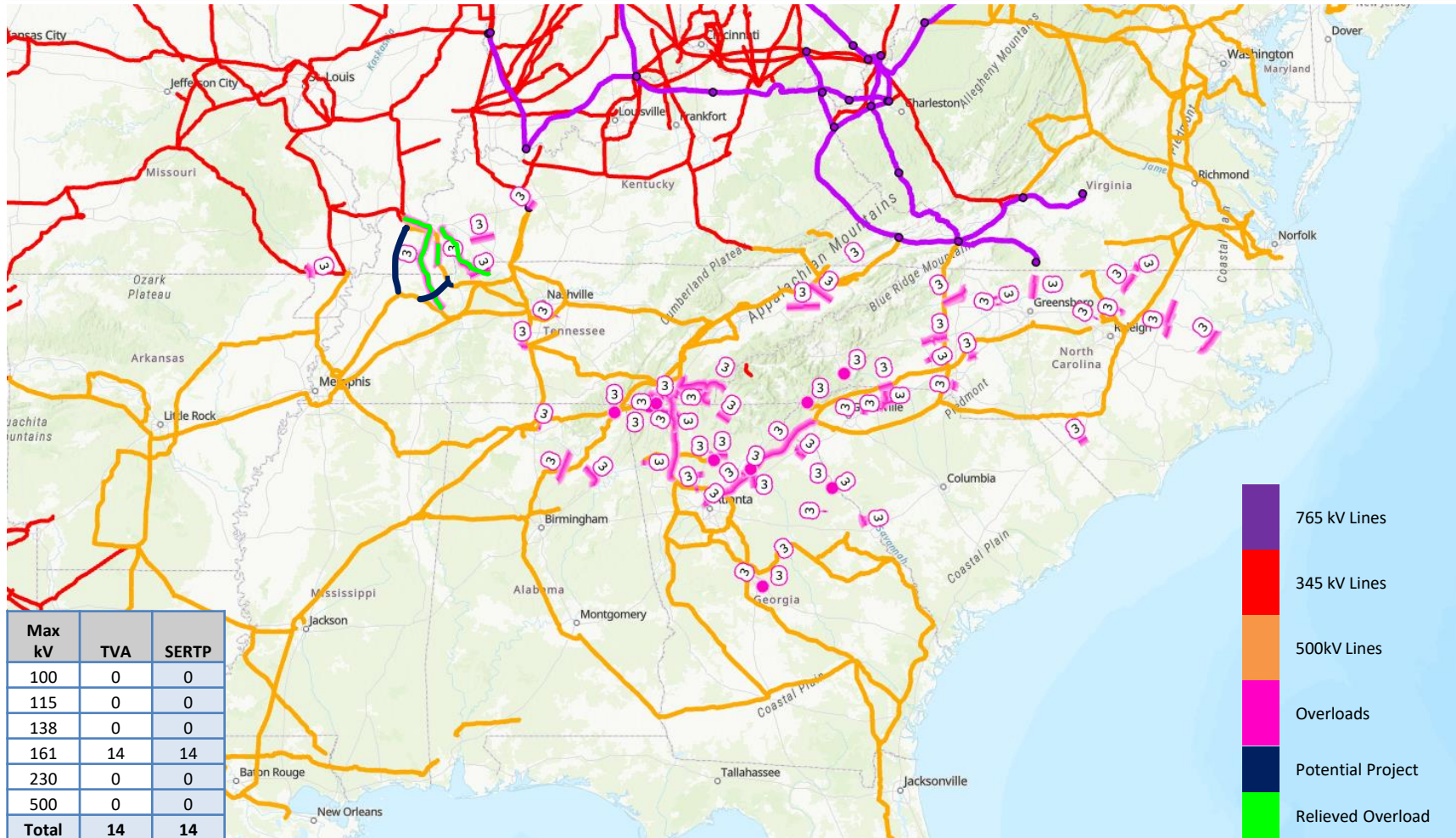
Total Cost: \$3,164.6 Million

Potential Strategic Solution 1 – P1

Item	Potential Enhancement	Area	Planning Level Cost Estimate
P1	(1) Build a new 110 mile, 500kV line from New South Hall – Hiwassee 500kV (SBAA – TVA) a. SOCO portion will be 55miles with 3-1113 ACSR rated for 100C b. TVA portion will be 55 miles		
	(2) Build a new 75 miles, 500kV line from Widows Creek – Mosteller Springs 500kV (TVA – SBAA) a. SOCO portion will be 37.5 miles with 3-1113 ACSR rated for 100C b. TVA portion will be 37.5 miles	SBAA	\$1,530,593,000
	(3) Build a new 220 mile, 500kV line from Newport - East Walton 500kV (DEC – SBAA Portion) a. SOCO portion will be 110 miles with 3-1113 ACSR rated for 100C b. DEC portion will be 110 miles with bundled 2505 ACSR rated at 120°C	DEC	\$1,207,500,000
	(4) Build a new 27 mile, 500kV line with 3-1113 ACSR rated for 100C from Klondike – East Walton 500kV (SBAA)	TVA	\$426,500,000
	(5) Build a new 14 mile, 500kV line with 3-1113 ACSR rated for 100C from McGrau Ford – Norcorss 500kV (SBAA)	Total	\$3,164.6 Million ⁽¹⁾

(1) Total planning level cost estimate does not include the cost of projects that are included in SERTP Sponsors' expansion plans and are scheduled to be completed by June 1st of the study year. The studied transfer depends on these projects being in-service, and the cost to support the study transfer could be greater than the total shown above if any of these projects are delayed or cancelled.

Potential Strategic Solution 2 – P35



Potential Solution Description

- Construct a new Murray 500/161kV station along the Marshall - Cumberland 500 kV line
- New Weakly – Shawnee 500kV line (62.5 miles)
- New Gleason – Murray 500kV line (35 miles)

Total Cost: \$534.8 Million

Potential Strategic Solution 2 – P35

Item	Potential Enhancement	Area	Planning Level Cost Estimate
P35	<p>Construct a new Murray 500/161kV station along the Marshall - Cumberland 500 kV line. Construct a new Weakly – Shawnee 500kV line (62.5 miles). Construct a new Gleason – Murray 500kV line (35 miles)</p>	TVA	\$534,762,000 ⁽¹⁾

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Potential Enhancements Identified - Summary

Max kV	100kV	115kV	138kV	161kV	230kV	500kV
DEC	11	0	0	0	1	1
DEPE	0	5	0	0	5	0
SBAA	0	2	0	0	5	1
TVA	0	0	1	8	0	0
SERTP	11	7	1	8	11	2
TOTAL (\$2024): \$908.6 Million⁽¹⁾						

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Potential Enhancements Identified

Item	Potential Enhancement	Area	Planning Level Cost Estimate ⁽¹⁾
P2	Rebuild 2.68 miles of the Tiger Tie to East Greenville Tie 100 kV Transmission Lines with 1272 ACSR rated at 120°C	DEC	\$10,720,000
P3	Rebuild 29.62 miles of the Cliffside 5 to Campobello Tie 100 kV Transmission Lines with 954 ACSR rated at 120°C	DEC	\$118,480,000
P4	Rebuild 21.16 miles of the Cliffside 5 to Tiger Tie 100 kV Transmission Lines with 954 ACSR rated at 120°C	DEC	\$84,640,000
P5	Rebuild 19.20 miles (Full line rebuild) of the Peach Valley to Riverview 230 kV Transmission Lines 1158 ACSS/TW rated at 200°C	DEC	\$96,000,000
P6	Rebuild 4.77 miles of the Cliffside 5 to Peach Valley 100 kV Transmission Lines with 954 ACSR rated at 120°C	DEC	\$19,080,000
P7	Rebuild 5.43 miles of the Lookout Tie to Stamey Tie 100 kV Transmission Lines with bundled 954 ACSR rated at 120°C	DEC	\$21,720,000

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Potential Enhancements Identified

Item	Potential Enhancement	Area	Planning Level Cost Estimate ⁽¹⁾
P8	Rebuild 7.88 miles of the Orchard Tie to Lincoln Tie 100 kV Transmission Lines with 1272 ACSR rated at 120°C	DEC	\$31,520,000
P9	Rebuild/Reconductor 1500' of the Woodlawn to Wylie Switching Station 100 kV Transmission Lines with 1272 ACSR rated at 120°C	DEC	\$1,200,000
P10	Upgrade the Mitchel River Tie terminals of the Mitchel River Tie to Bannertown Tie 100 kV Transmission Lines	DEC	\$1,000,000
P11	Upgrade terminals at customer station along the Shattalon Switching Station to Winston Tie 100 kV Transmission Line to improve the line rating	DEC	\$1,000,000
P12	Rebuild 3.26 miles of the Durham Main to Ashe St 100 kV. Because of the configuration of the 100 kV lines in the area, this rebuild will include rebuilds of 1.35 miles of the Durham Main to E Durham Tie and 1.91 miles of the E Durham Tie to Ashe St 100 kV Transmission Lines. Any new conductor will be 1272 ACSR rated at 120°C	DEC	\$13,000,000
P13	Upgrade the Oconee Terminal of the Oconee to South Hall 500 kV T.L.	DEC	\$10,000,000

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Potential Enhancements Identified

Item	Potential Enhancement	Area	Planning Level Cost Estimate ⁽¹⁾
P14	Rebuild 5.3 miles of the Winecoff Tie to Conley Switching Station 100 kV Transmission Lines with 1272 ACSR rated at 120°C	DEC	\$21,200,000
P15	Rebuild 1.83 DEP miles (Full line rebuild) of the Greenville - VP Everetts 230 kV Line with 6-1590 w/ 3kA equipment (1195 MVA) ²	DEPE	\$9,150,000
P16	Rebuild 19.2 DEP miles of the Henderson - VP Kerr Dam 115 kV Line with 795 ACSS/TW (313 MVA) ²	DEPE	\$76,800,000
P17	Rebuild 8.51 DEP miles of the Rocky Mount - VP Battleboro 115 kV Line with 6-795 ACSS/TW (626 MVA) ²	DEPE	\$34,040,000
P18	Rebuild 4.73 DEP miles of the Rocky Mount - VP Hathaway 230 kV East Line with 6-1590 w/ 3kA equipment (1195 MVA) ²	DEPE	\$23,650,000
P19	Rebuild 4.44 DEP miles of the Rocky Mount - VP Hathaway 230 kV West Line with 6-1590 w/ 3kA equipment (1195 MVA) ²	DEPE	\$22,200,000

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(2) Only DEPE miles are listed for tie lines. Neighboring utility may list their own constraints, upgrades, and costs if applicable.

Potential Enhancements Identified

Item	Potential Enhancement	Area	Planning Level Cost Estimate ⁽¹⁾
P20	Rebuild 2.5 miles of the Falls - Franklinton 115 kV West Line with 795 ACSS/TW (313 MVA)	DEPE	\$10,000,000
P21	Rebuild 7.11 miles of the Rocky Mount - Spring Hope SS 115kV Line with 795 ACSS/TW (313 MVA)	DEPE	\$28,440,000
P22	Rebuild 6.98 miles of the Rocky Mount - Wilson 115kV Line with 6-1272 ASCSR (541 MVA)	DEPE	\$27,920,000
P23	Rebuild 12.79 miles of the Rocky Mount - Wilson 230kV Line with 6-1590 w/ 3kA equipment (1195 MVA)	DEPE	\$63,950,000
P24	Rebuild 3.8 miles of the Weatherspoon Plant - Marion 115kV Line with 795 ACSS/TW (313 MVA)	DEPE	\$15,200,000
P25	Add a second 500/230kV, 2016MVA transformer at the South Hall 500/230kV substation.	SBA	\$32,000,000

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Potential Enhancements Identified

Item	Potential Enhancement	Area	Planning Level Cost Estimate ⁽¹⁾
P26	Rebuild 3.52 miles between Bull Sluice and Sandy Springs of the Bull Sluice-Powers Ferry 230kV line with 200C 1351 ACSS conductor and replace limiting elements.	SBAA	\$12,750,000
P27	Rebuild 3.09 miles between Winder Primary and Winder of the South Hall - Winder Primary 230kV line with 200C 1351 ACSS conductor and replace limiting elements.	SBAA	\$14,505,000
P28	Rebuild of the South Hall-Winder Primary 230kV line approximately 17 miles with 200C 1351 ACSS conductor and replace limiting elements along the line.	SBAA	\$70,000,000
P29	Rebuild the Evans Primary-Thurmond Dam (USA) #5 115kV line from Evans to Euchee Creek (3.5 miles) with 200C 1351 ACS conductor and replace limiting elements in substations.	SBAA	\$6,000,000
P30	Rebuild 4.53 miles between Nelson and McClain Mountain of the Dawson Croosing-Nelson (Black) 115kV line with 200C 795 ACSS conductor and replace limiting elements.	SBAA	\$7,751,000
P31	(MEAG) Rebuild 2.6 miles of the Big Shanty-West Marietta 230kV line with between Barrett Parkway and Big Shanty with 200C 1351 ACSS and replace limiting elements.	SBAA	\$4,500,000

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Potential Enhancements Identified

Item	Potential Enhancement	Area	Planning Level Cost Estimate ⁽¹⁾
P32	Replace the 4000A 230kV bus tie breakers with 5000A at South Hall 230kV.	SBAA	\$608,000
P33	Uprate the jumper and bus work at the N Bristol VA 138kV substation	TVA	\$449,000
P34	Reconductor 0.46 miles of the BR Tap – Paradise KY 161kV transmission line with 1351 ACSS conductor	TVA	\$200,000
P36	Uprate the jumper at the Guntersville, AL Primary 161kV substation	TVA	\$321,000
P37	Reconductor 5.1 miles of the Maury, TN – Monsanto, TN 161kV transmission line with 795 ACSS conductor. Uprate the jumper and bus work at the Monsanto, TN 161kV substation	TVA	\$2,670,000
P38	Reconductor 3.87 miles of the Interchange City, TN – Hurricane Creek, TN 161kV transmission line with 954 ACSS conductor.	TVA	\$1,818,000

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Potential Enhancements Identified

Item	Potential Enhancement	Area	Planning Level Cost Estimate ⁽¹⁾
P39	Upgrade the jumper at the Hopkinsville, KY 161kV substation	TVA	\$321,000
P40	Reconductor 5.22 miles of the John Sevier FP – Persia, TN 161kV transmission line with 696 ACSS conductor. Upgrade the jumper and secondary equipment and reverse trip settings at the John Sevier FP 161kV substation	TVA	\$2,722,000
P41	Reconductor 17.84 miles of the West Green, TN Tap – Greenville Tap 161kV transmission line with 636 ACSS conductor.	TVA	\$8,381,000
P42	Reconductor 5.69 miles of the West Green, TN Tap – Greenville Tap 161kV transmission line with 696 ACSS conductor.	TVA	\$2,673,000
TOTAL (\$2024)			\$4,608 Million ⁽¹⁾

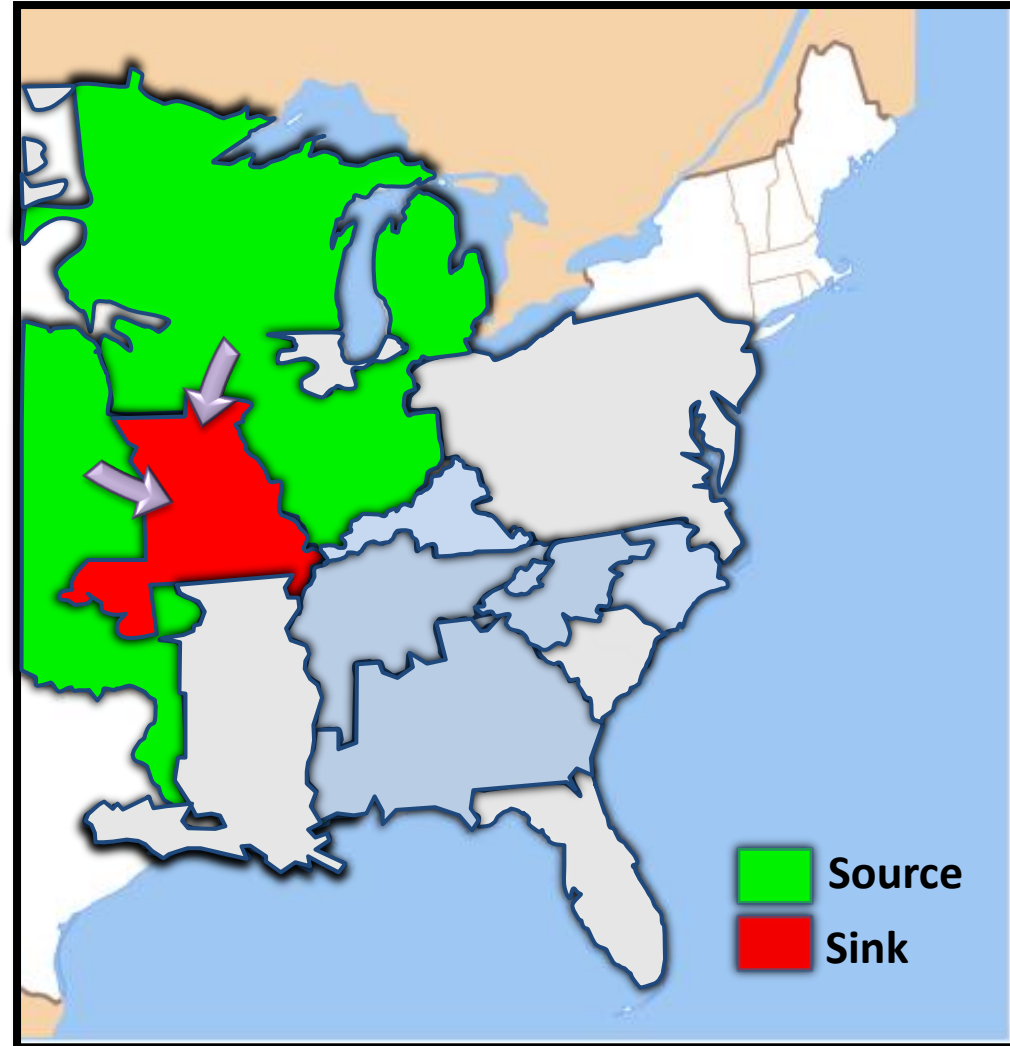
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Economic Planning Studies – Preliminary Results

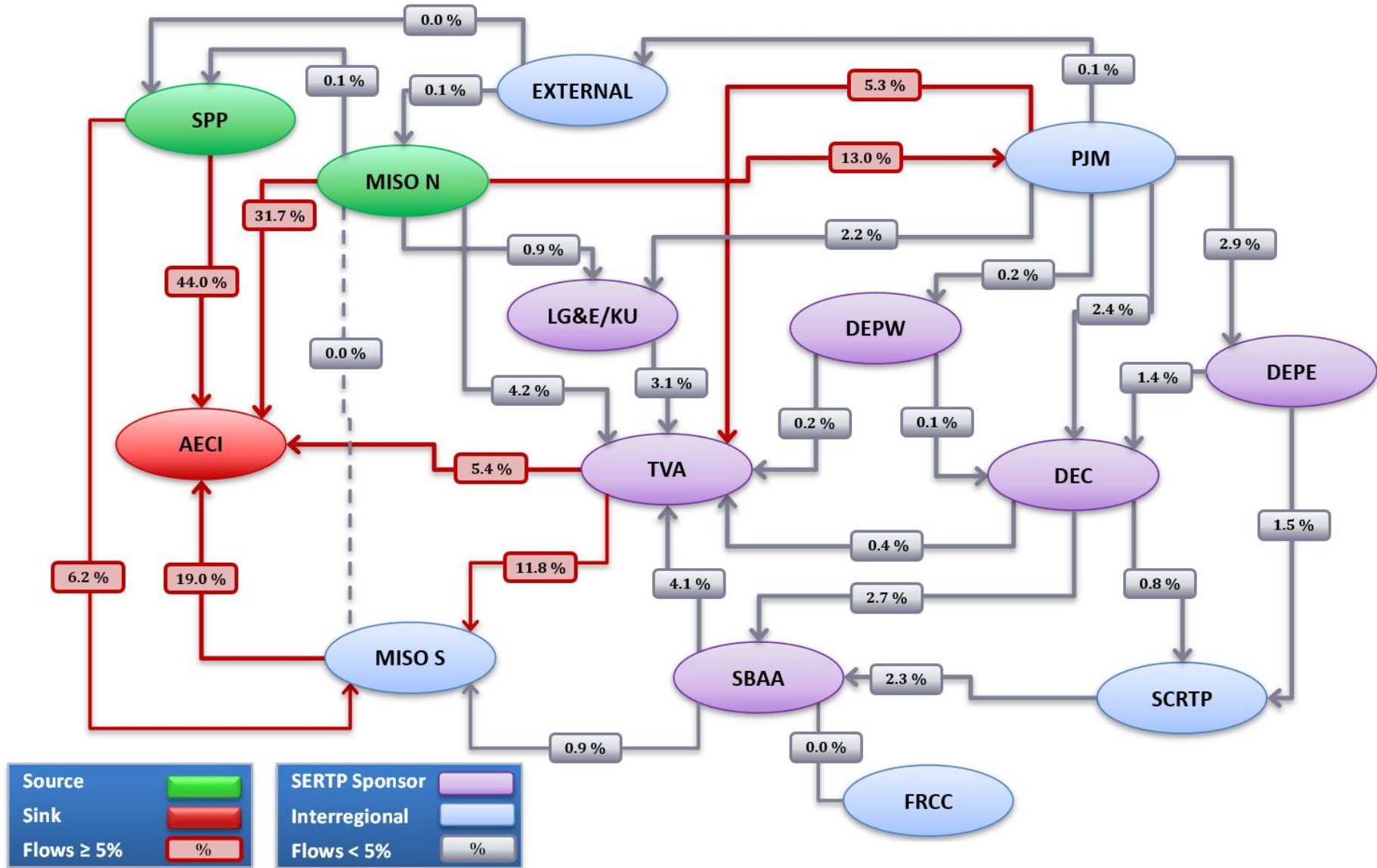
SPP/MISO North to AECI– 2,500MW

Study Assumptions

- **Source**: Generation Scale within SPP(1,000)/MISO North (1,500)
- **Sink**: Uniform Generation with AECI
- **Transfer Type**: Generation to Generation
- **Year**: 2029
- **Load Level**: Summer Peak

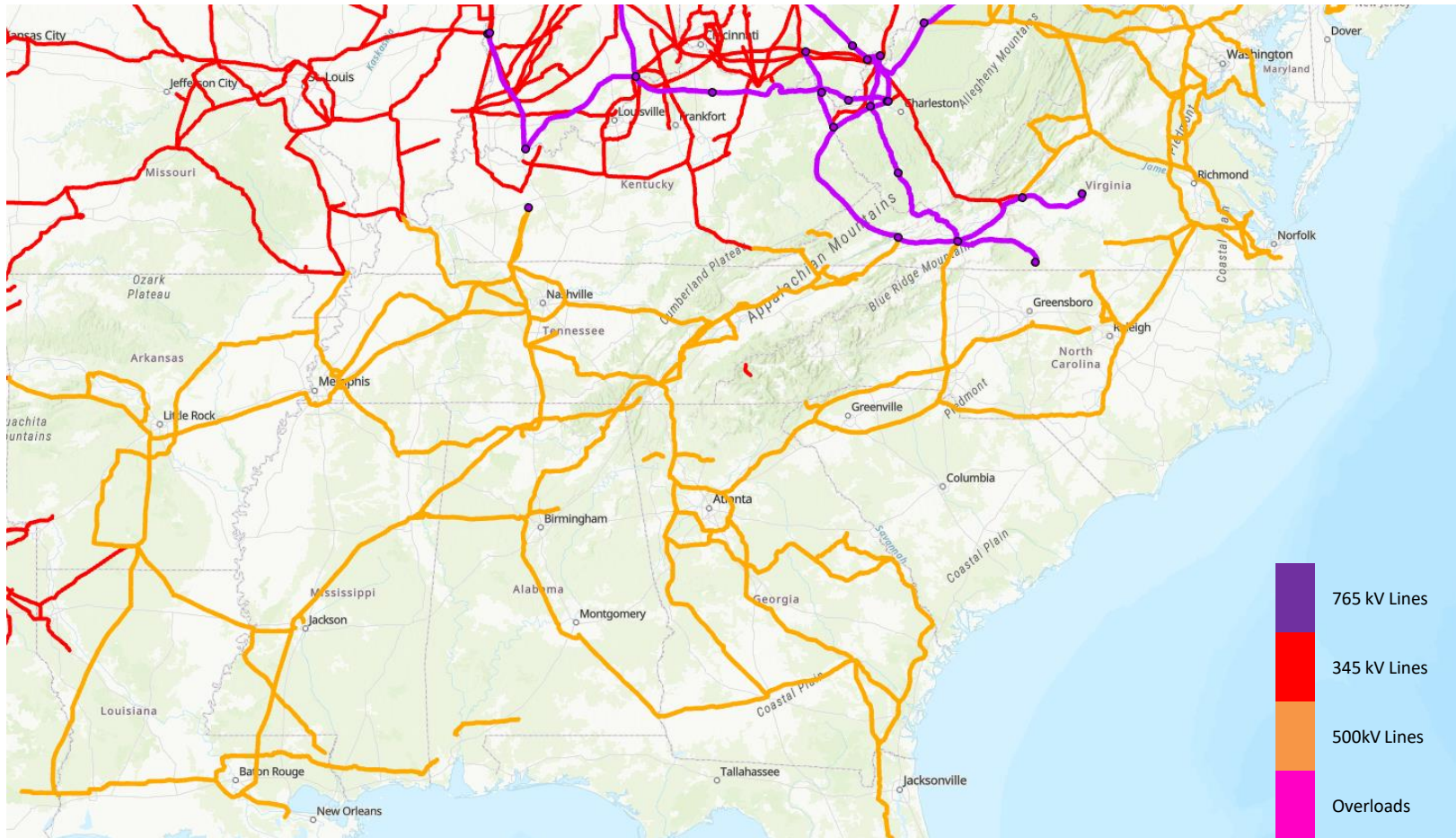


Preliminary SPP/MISO N to AECI – 2,500 MW



Transfer Flow Diagram (% of Total Transfer)

Transmission System Impacts - SERTP



Facility Violations:
None Identified

Potential Enhancements Identified: 0

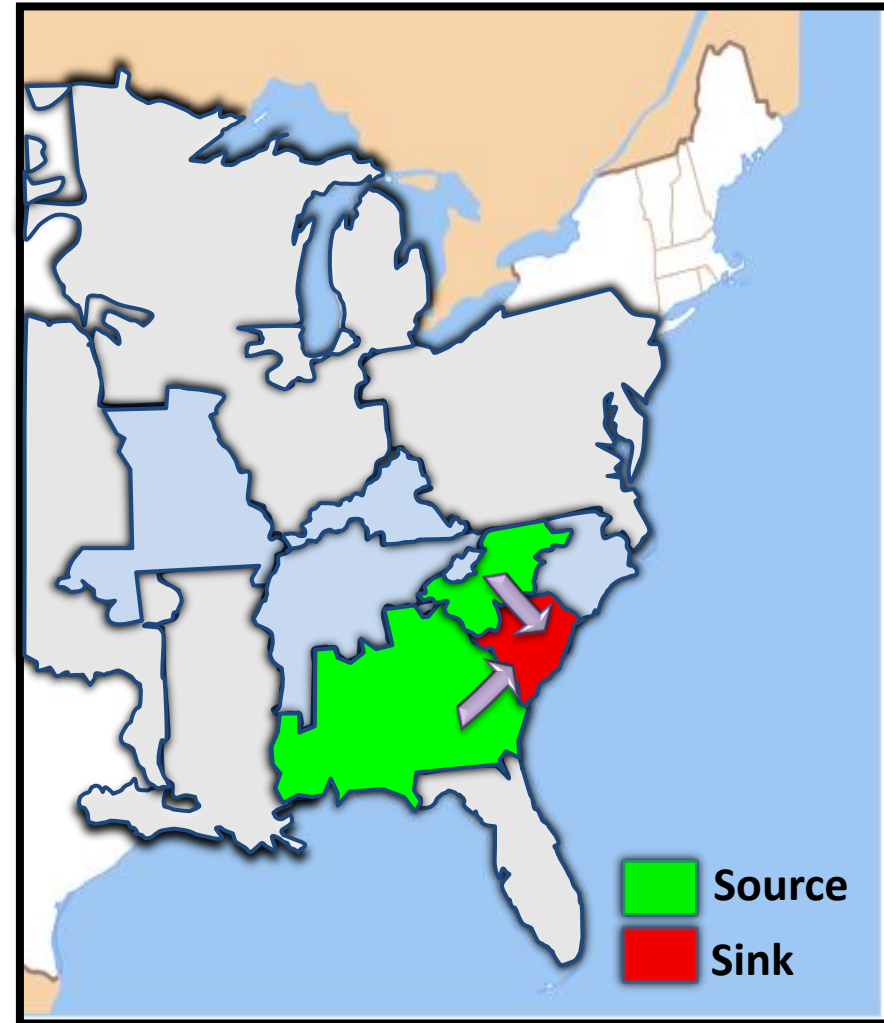
SERTP TOTAL (\$2024) = \$ 0

Economic Planning Studies – Preliminary Results

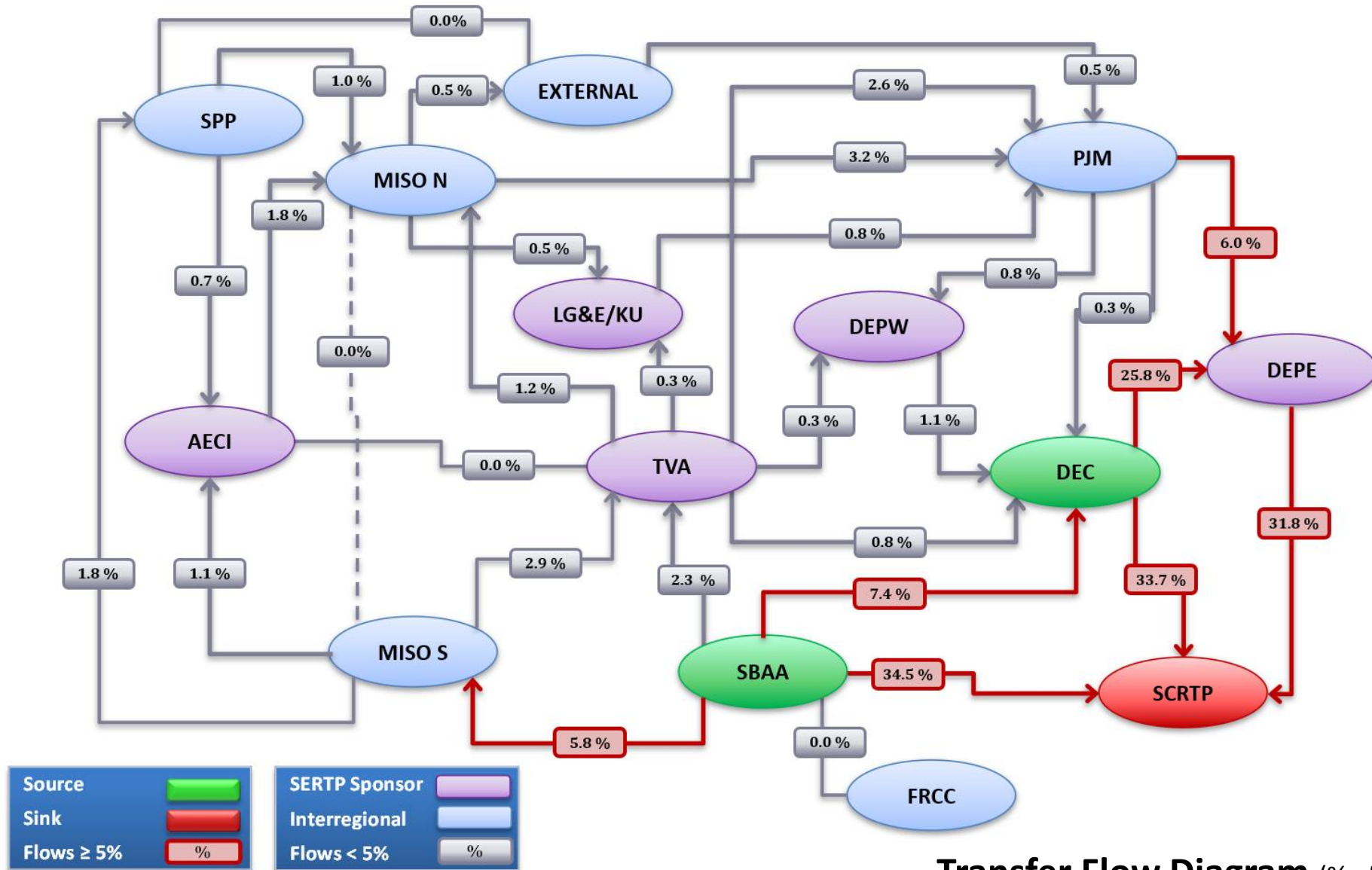
DEC/SOCO to Santee Cooper – 2,400MW

Study Assumptions

- **Source**: Load Scale* within DEC(1,200)/
Generation Scale within SOCO(1,200)
- **Sink**: Uniform Generation with Santee Cooper
- **Transfer Type**: Load/Generation to Generation
- **Year**: 2034
- **Load Level**: Winter Peak

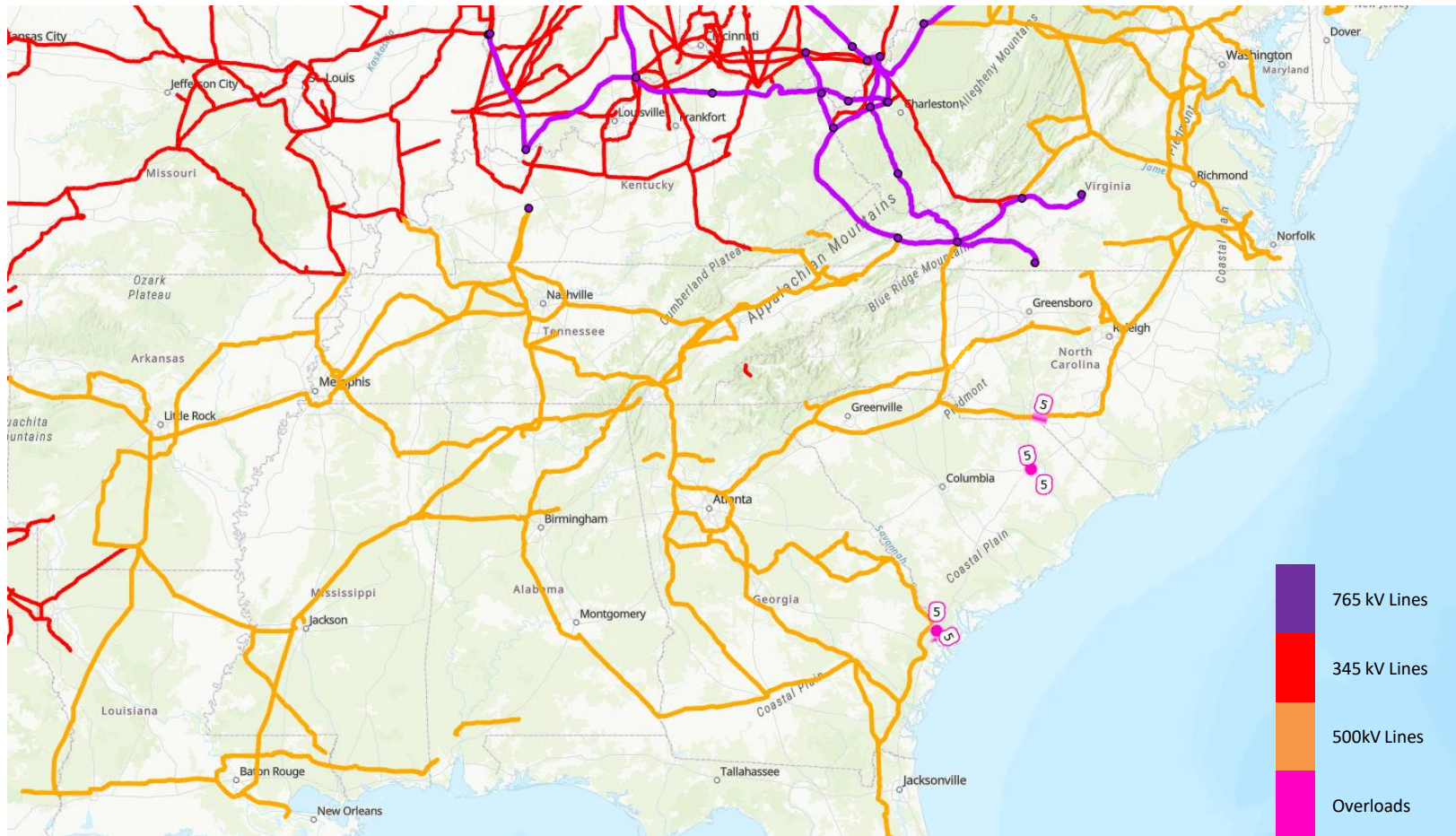


Preliminary DEC/SOCO – Santee Cooper 2,400 MW



Transfer Flow Diagram (% of Total Transfer)

Transmission System Impacts - *SERTP*



Facility Violations:

115 kV – 2

230 kV – 1

230/115 kV – 2

Potential Enhancements Identified: 4

Violations Addressed by Existing
Projects: 1

SERTP TOTAL (\$2024) = \$24.3
Million

Potential Enhancements Identified

Item	Potential Enhancement	Area	Planning Level Cost Estimate
P1	Upgrade 14.05 miles of the Laurinburg - Richmond 230kV Line to full conductor rating (1195 MVA)	DEPE	\$14,050,000
P2	Upgrade Florence 230 kV, Sub 115 kV bus tie breaker, including switches and CT ratio	DEPE	\$2,000,000
P3	Upgrade relay settings to get 336 MVA rating for Florence 230/115kV transformer #2	DEPE	\$1,000,000
P4	Install a second 400MVA 230/115kV auto transformer at McIntosh substation.	SBAA	\$7,225,000
TOTAL (\$2024)			\$24.3 Million⁽¹⁾

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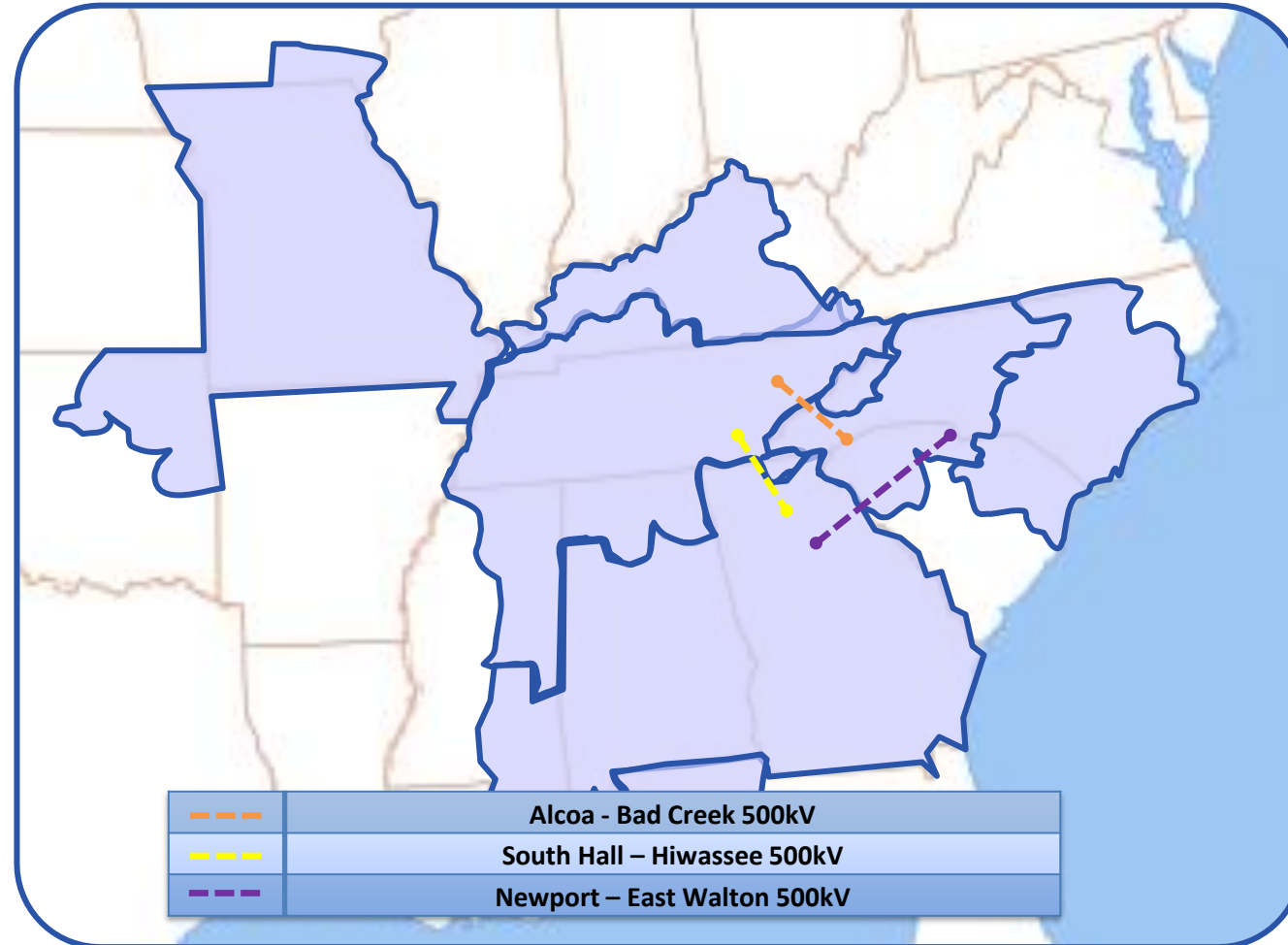
SERTP

Miscellaneous Updates

Regional Planning Update

- Version 2 SERTP Regional Models available on SERTP Website
- SERTP has now held interregional data exchange meetings with all neighbors:
 - SCRTP, SPP, MISO, PJM and FRCC
- SERTP Sponsors beginning analyses on regional models including assessment to identify and evaluate potential regional transmission projects

Preliminary List of Alternative Regional Transmission Projects



Preliminary List of Alternative Regional Transmission Projects

Alternative Regional Transmission Projects	Miles	From	To
		BAA (State)	BAA (State)
Alcoa - Bad Creek 500kV	125	TVA (TN)	DEC (NC)
South Hall – Hiwassee 500kV	110	SBAA (GA)	TVA (TN)
Newport – East Walton 500kV	220	DEC (NC)	SBAA (GA)

SERC Regional Model Development Update

- SERC is one of the six regional electric reliability councils under the North American Electric Reliability Corporation authority (NERC).
- SERC oversees the implementation and enforcement of Reliability Standards among the bulk power system (BPS) users, owners, and operators.



SERC Regional Model Development Update

- **SERC Regional Model Development**

- SERC Long-Term Working Group (LTWG)
 - Analyze the performance of the members' transmission systems
 - Evaluate the performance of bulk power supply facilities under both normal and contingency conditions for future years.
- Data Bank Update (DBU)
 - The DBU is held to conduct an annual update of power flow models for the SERC Region to be used for operating and future year studies.

SERC Regional Model Development Update

- **SERC Regional Model Development**

- Eastern Interconnection Reliability Assessment Group (ERAG)
 - The SERC Models are incorporated into the power flow models of the interconnected regions and updated annually by ERAG
 - Responsible for developing a library of solved power flow models of the Eastern Interconnection (Multi-regional Modeling Work Group – MMWG).
 - The updated Regional MMWG Models serve as the starting point model for the SERTP Regional Power Flow Models
 - MOD-32 Compliance (Data for Power System Modeling and Analysis)

SERC Regional Model Development Update

- **SERC Regional Model Development**
 - LTWG Schedule of Events for 2024
 - Data Bank Update (DBU) was finalized in June
 - Power flow cases were finalized in June
 - Future Study Year Case: 2029 Winter Peak Load
 - Nonpublic Study and Report was completed in September
 - Planning Coordination Subcommittee
 - ERAG Schedule of Events for 2024
 - MMWG Model Update performed from August – September
 - Power flow cases expected to be finalized in October

Next Meeting Activities

- **2024 SERTP 4th Quarter Meeting** – *Annual Transmission Planning Summit & Input Assumptions Meeting*
 - **Location: Atlanta, GA**
 - **Date: December 11th, 2024**
 - Considering expanding to a 2-day meeting
 - **Purpose:**
 - Final Economic Planning Study Results
 - Final Regional Transmission Plan
 - Regional Analyses Results
 - 2025 Assumptions Input Session



Questions?

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