

SERTP - 1st Quarter Meeting

First RPSG Meeting & Interactive Training Session

March 22nd, 2022

Microsoft Teams

Process Information

- The SERTP process is a transmission planning process.
- Please contact the respective transmission provider for questions related to real-time operations or Open Access Transmission Tariff (OATT) transmission service.
- SERTP Website Address:
 - www.southeasternrtp.com

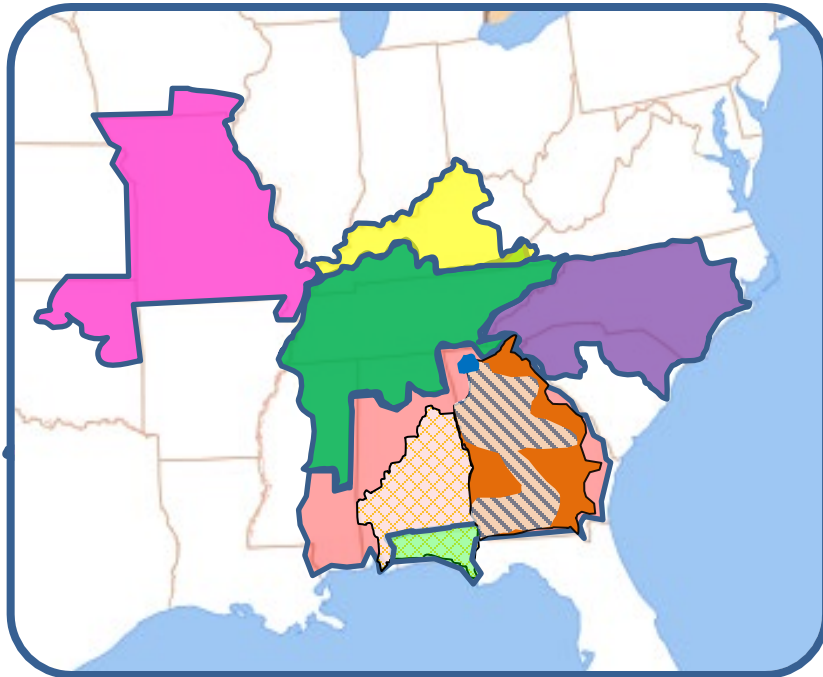
Agenda

- **2022 SERTP Process Overview**
- **Form the “RPSG”**
 - Regional Planning Stakeholders Group
 - Committee Structure & Requirements
- **Economic Planning Studies**
 - Review Requested Sensitivities for 2022
 - RPSG to Select up to Five Economic Planning Studies
- **Interactive Training Session**
 - SERTP Economic Planning Studies Process – Southern Company
- **Miscellaneous**
 - Public Policy Requirement Stakeholder Requests
- **Next Meeting Activities**

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2022 SERTP Process Overview

Southeastern Regional Transmission Planning (SERTP)



SERTP

-  Associated Electric Cooperative Inc.
-  Dalton UTILITIES
-  DUKE ENERGY
-  GeorgiaTransmission
-  Gulf Power
-  LGE & KU
-  MEAGPOWER
-  POWERSOUTH ENERGY COOPERATIVE
-  Southern Company
-  TVA

Upcoming 2022 SERTP Process

- **SERTP 1st Quarter – *1st RPSG Meeting & Interactive Training Session***
March 22th 2022
 - Form RPSG
 - Select Economic Planning Studies
 - Interactive Training Session

- **SERTP 2nd Quarter – *Preliminary Expansion Plan Meeting***
June 2022
 - Review Modeling Assumptions
 - Preliminary 10 Year Expansion Plan
 - Stakeholder Input & Feedback Regarding the Plan

Upcoming 2022 SERTP Process

- **SERTP 3rd Quarter – 2nd RPSG Meeting**
September 2022
 - Preliminary Results of the Economic Studies
 - Stakeholder Input & Feedback Regarding the Study Results
 - Discuss Previous Stakeholder Input on the Expansion Plan
- **SERTP 4th Quarter – Annual Transmission Planning Summit & Input Assumptions**
December 2022
 - Final Results of the Economic Studies
 - Regional Transmission Plan
 - Regional Analyses
 - Stakeholder Input on the 2023 Transmission Model Input Assumptions

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Regional Planning Stakeholder Group
(RPSG)

The SERTP Stakeholder Group

- RPSG – Regional Planning Stakeholder Group
- Serves Two Primary Purposes
 - 1) The RPSG is charged with determining and proposing up to five (5) Economic Planning Studies on an annual basis
 - 2) The RPSG serves as stakeholder representatives for the eight (8) industry sectors in interactions with the SERTP Sponsors

RPSG Committee Structure

RPSG Sector Representation

1. Transmission Owners / Operators
2. Transmission Service Customers
3. Cooperative Utilities
4. Municipal Utilities
5. Power Marketers
6. Generation Owner / Developers
7. Independent System Operators (ISOs) / Regional Transmission Operators (RTOs)
8. Demand Side Management / Demand Side Response

RPSG Committee Structure

- Sector Representation Requirements
 - Maximum of two (2) representatives per sector
 - Maximum of sixteen (16) total sector members
 - A single company, and all of its affiliates, subsidiaries, and parent company, is limited to participating in a single sector

RPSG Committee Structure

- Annual Reformation
 - Reformed annually at 1st Quarter Meeting
 - Sector members elected for a term of approximately one year
 - Term ends at start of following year's 1st Quarter SERTP Meeting
 - Sector Members shall be elected by the Stakeholders present at the 1st Quarter Meeting
 - Sector Members may serve consecutive, one-year terms if elected
 - No limit on the number of terms that a Sector Member may serve

RPSG Committee Structure

- Simple Majority Voting
 - RPSG decision-making that will be recognized by the Transmission Provider for purposes of Attachment K shall be those authorized by a simple majority vote by then-current Sector Members
 - Voting by written proxy is allowed

RPSG Formation

- [2021 SERTP RPSG Sector Members](#)
- **2022 SERTP RPSG Sector Members**

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Economic Planning Studies

SERTP Regional Models

- SERTP will develop 6 coordinated regional models
- Models include latest transmission planning model information within the SERTP region
- Typically 3 versions created annually
- Available on the [Secure Area](#) of the SERTP website upon satisfying access requirements

No.	Season	Year
1	Summer	2024
2		2027
3		2032
4	Shoulder	2027
5	Winter	2027
6		2032

Economic Planning Study Process

- **RSPG selects the Economic Studies in the 1st Quarter Meeting**
- **SERTP Sponsors identify the transmission requirements needed to move large amounts of power above and beyond existing long-term, firm transmission service commitments**
 - Analysis is consistent with NERC standards and company-specific planning criteria
- **These studies represent analyses of hypothetical scenarios requested by the stakeholders and do not represent an actual transmission need or commitment to build**
- **Completed Economic Study Request Reports are Posted on the SERTP WebSite in the General Documents section of the Reference Library Tab**
- **Scoping Meeting typically held in April/May**

RPSG Selected List of Economic Study Requests

- [2021 Economic Planning Studies](#)
- **2022 Economic Planning Studies**

2022 SERTP

SERTP – Interactive Training Session

Economic Planning Studies

March 22nd, 2022

Overview

2022 SERTP

- **The RPSG (Regional Planning Stakeholder Group), which is formed at the 1st quarter SERTP meeting, selects up to five unpaid economic planning studies to be performed.**
- **Studies confined to sensitivity requests for bulk power transfers**
 - Integration of potential new resources/reducing congestion also constitutes valid requests.
- **All studies are to be performed incremental to existing long-term firm commitments, load forecasts, and resource assumptions.**
- **Include the identification of transmission enhancements within the footprint of the transmission owners**

**EPSs are not intended to replace System Impact Studies, Facility Studies, or any of the studies that are performed for transmission delivery service or interconnection service under the Tariff.

Assump

2022 SERTP

- **Source of power transfer**
- **Sink for power transfer**
- **Year to evaluate**
- **Load level (ex. Summer Peak)**
 - All studies should incorporate the critical condition(s) of the SERTP sponsors. Additional load levels may be requested, but represent different studies
- **Type of Transfer**
 - Generation adjustment within SERTP region
 - Load scale within areas outside of SERTP because generation dispatch data is not readily available

Case De [REDACTED] 2022 SERTP

- **The latest version of the 20XX series SERTP regional models is used as a starting point.**
- **Each SERTP Sponsor will initially run power flow to identify limits, but voltage, stability, and short circuit studies may be performed, as necessary.**
- **PSS/E, TARA, and/or MUST will be used for the study.**
- **Results Documented:**
 - Thermal loadings for facilities > 90% and negatively impacted by at least 5% from the transfer
 - Potential improvements that address overloads \geq 100%
 - Voltage limitations (as indicated by participating transmission owner's planning criteria)

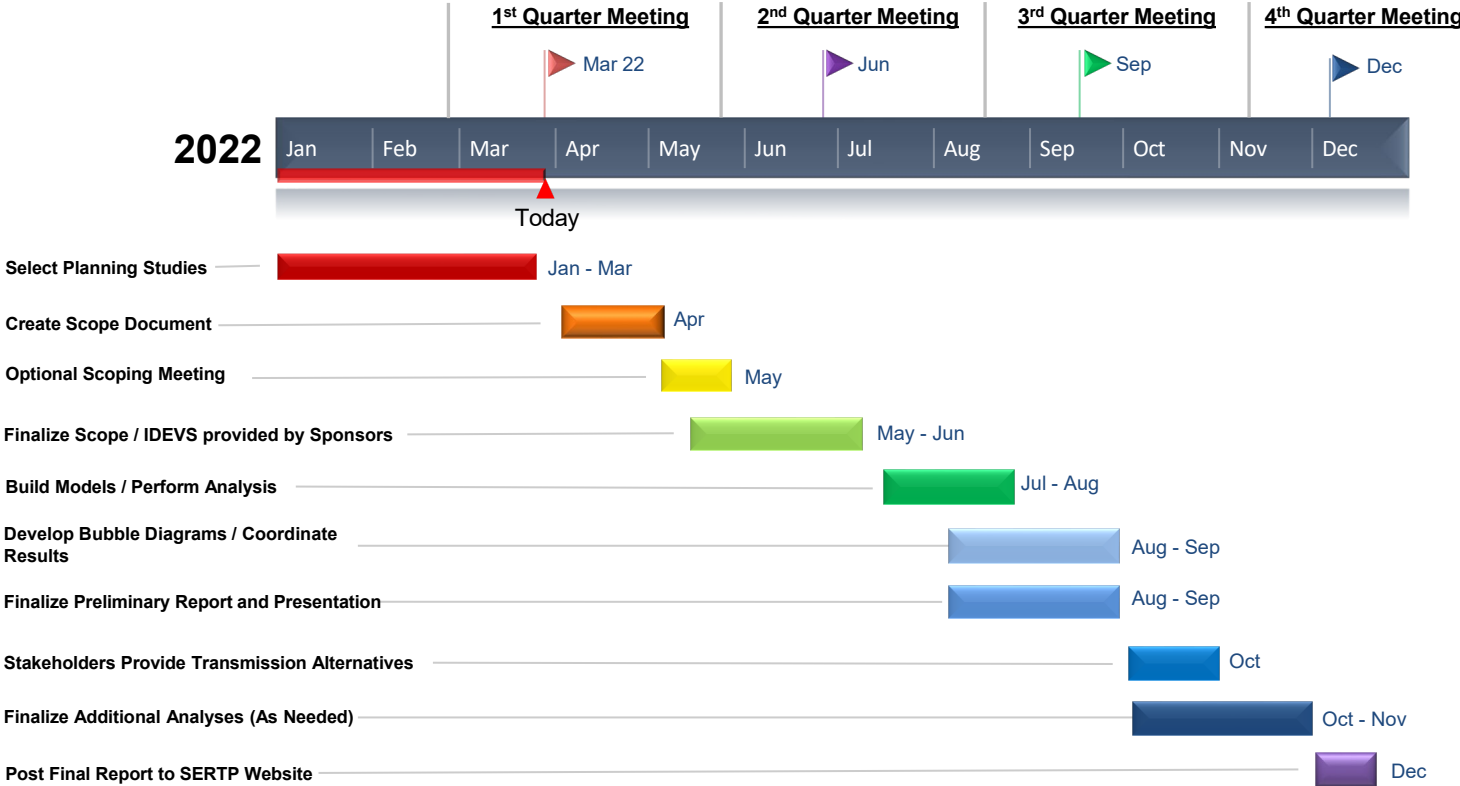
Reporting

2022 SERTP

- **A report with all the study results will be compiled and contain the following:**
 - A description of the study approach and assumptions used for the economic planning studies
 - The results for each economic planning study shall include:
 - Limits to the transfer
 - Selected transmission solution alternative(s) to address the limit.
 - Rough, planning-level cost estimates and in-service dates for the transmission solution alternatives
- **Final results will be presented at the Annual Transmission Planning Summit.**

2022 SERTP

SERTP Economic Planning Studies Process Timeline

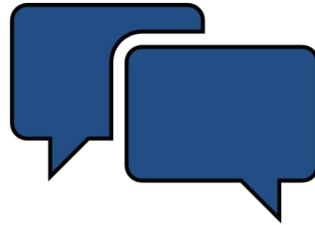


Key Takeaways

2022 SERTP

- **Results should be evaluated using NERC Reliability Standards and individual sponsor criteria**
- **These studies represent analyses of hypothetical scenarios requested by stake-holders and do not represent an actual transmission need or commitment to build**
- **Stakeholders may provide input on potential transmission alternatives for the Transmission Provider to consider throughout the SERTP planning process for each planning cycle.**

2022 SERTP



Questions?

www.southeasternrtp.com

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Public Policy Requirements Stakeholder Proposal

SERTP Evaluation

Transmission Needs Driven by Public Policy Requirements (PPRs)

- **The SERTP process did not receive any proposals for transmission needs driven by Public Policy Requirements for the 2022 planning cycle. Therefore, no transmission needs have been identified for further evaluation of potential transmission solutions in the 2022 SERTP planning cycle.**

Next Meeting Activities

- **2022 SERTP 2nd Quarter Meeting**
 - **Date: June 2022**
 - **Purpose:**
 - Review Modeling Assumptions
 - Discuss Preliminary 10 Year Expansion Plan
 - Stakeholder Input & Feedback Regarding the Plan



Questions?

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