

PJM – SERTP Planning Process Overview

Order 1000 Biennial Regional Transmission Plan Review Meeting — Presentation 1 of 2

May 7th, 2020



PJM – SERTP Interregional

Agenda

- SERTP Process Overview
 - Background
 - SERTP Region Scope
 - Processes and Timelines



SERTP

PROCESS OVERVIEW



SERTP Background

Southeastern Regional Transmission Planning Process (SERTP)

- Originally formed in 2007 to comply with FERC Order 890
- Provides open and transparent transmission planning forum for transmission providers to engage with stakeholders regarding transmission plans in the region
- Began regional implementation of Order 1000 requirements on June 1, 2014
- Began interregional implementation of Order 1000 on January 1, 2015



Southeastern Regional Transmission Planning (SERTP)







Southeastern Regional Transmission Planning (SERTP)



Balancing Authority Area:

AECI

Duke Carolinas

Duke Progress

LG&E/KU

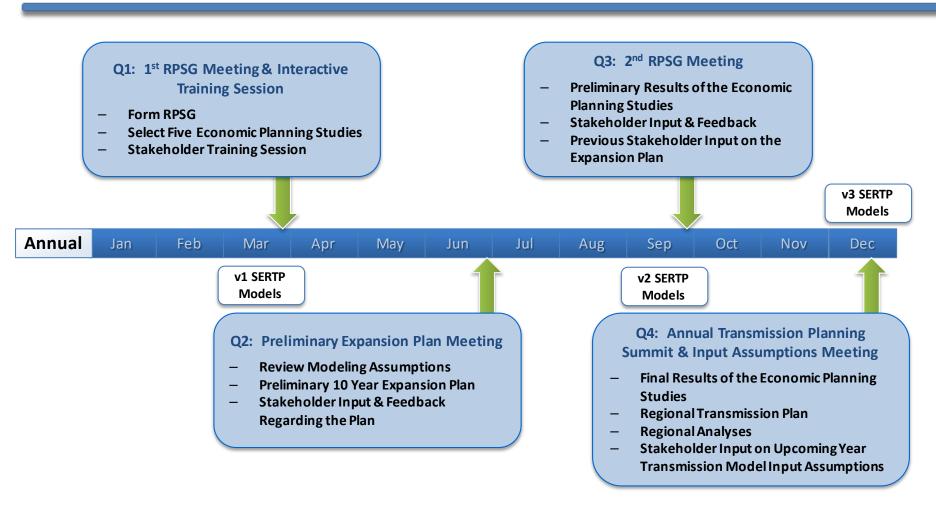
PowerSouth

Southern

TVA



SERTP Quarterly Stakeholder Meetings





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 for those that have executed the Planning Coordinator – Transmission Planner NDA for regional information exchange.
 - Prefer to Limit of 2-3 with capabilities to retrieve the information from the SERTP Secure Area.

No.	Season	Year
1	Summer	2022
2		2025
3		2030
4	Shoulder	2025
5	Winter	2025
6		2030



Economic Planning Studies

- SERTP stakeholders can request up to five economic planning studies be performed annually
- These studies represent analyses of hypothetical scenarios requested by the stakeholders and do not represent an actual transmission need or commitment to build
- 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
- 2019 SERTP Economic Planning Study Report



Regional Transmission Analyses

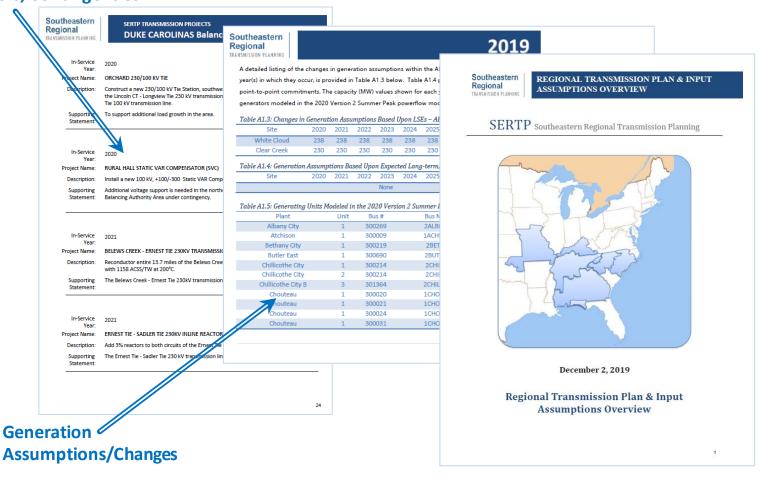
- Regional Transmission Analyses are performed during the course of each transmission planning cycle in order to:
 - 1) Assess if the then current regional transmission plan addresses the Transmission Provider's transmission needs
 - 2) Assess whether there may be more efficient or cost effective transmission projects to address transmission needs
- 2019 SERTP Regional Analyses Summary



Regional Transmission Plan

Project Descriptions, Drivers, Contingencies

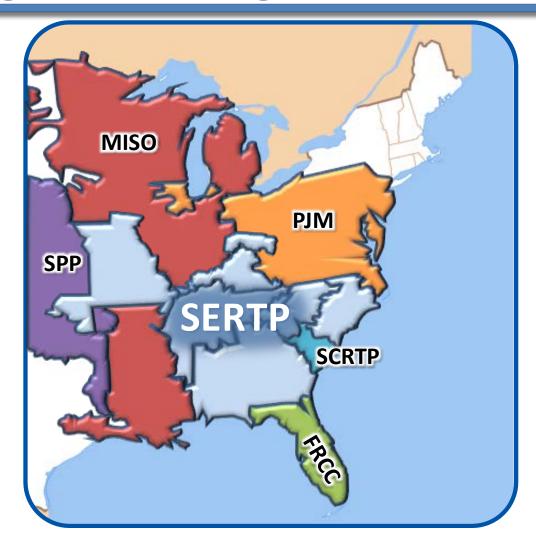
2019 SERTP Regional Transmission Plan





SERTP Region

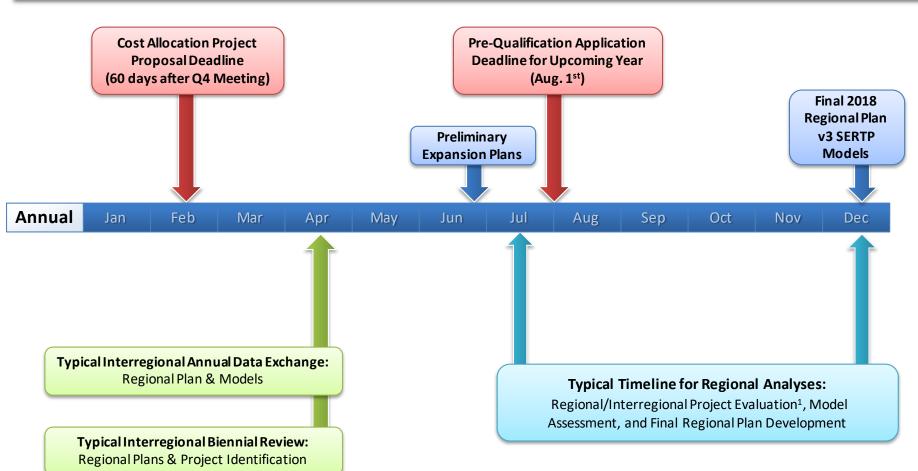
SERTP Region - Interregional Seams



Southeastern Regional TRANSMISSION PLANNING

SERTP Processes & Timelines

Regional/Interregional Process Timing



If a potential transmission project proposed for cost allocation satisfies the initial evaluation, a schedule will be developed in consultation with the transmission developer to provide additional detailed information for further detailed analysis. $_{13}$



Regional Cost Allocation

Scope of a Regional Project Eligible for Cost Allocation

- Transmission line located in the SERTP region
- 300 kV or greater
- Spans at least 50 miles
- Must have significant electrical or geographical differences from projects already under consideration

Benefits Considered

- Avoided costs of displaced transmission
- Real power loss savings (regional only)

Evaluations

- Qualitative & Quantitative 1.25 Benefit-to-Cost (BTC) Ratio
- Feasibility
- State jurisdictional and/or governance authorities opportunity for review



Interregional Cost Allocation

Interregional Project for Cost Allocation Must:

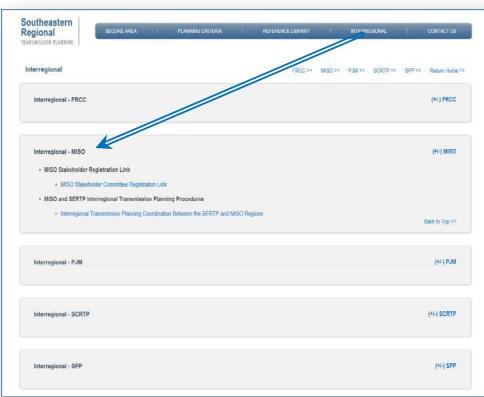
- Interconnect to facilities in both the SERTP and MISO regions
- Have a BTC of at least 1.25 in the SERTP Region
- Meet regional qualifications
- Be proposed in both regional processes



Interregional Coordination

- Meet annually to facilitate coordination procedures
- Website postings
- Annually exchange power-flow models
- Annually exchange regional transmission plans
- Meet biennially to review regional transmission plans
- Coordinate on any joint evaluations of potential interregional transmission projects

SERTP Website / Interregional





QUESTIONS?

WWW.SOUTHEASTERNRTP.COM