



PJM – SERTP Planning Process Overview Order 1000 Biennial Regional Transmission Plan Review Meeting – Presentation 1 of 2

May 8th, 2018 Georgia Power Corporate Headquarters Atlanta, GA



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



SERTP Overview

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SERTP PROCESS OVERVIEW

SERTP Overview

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SERTP Background

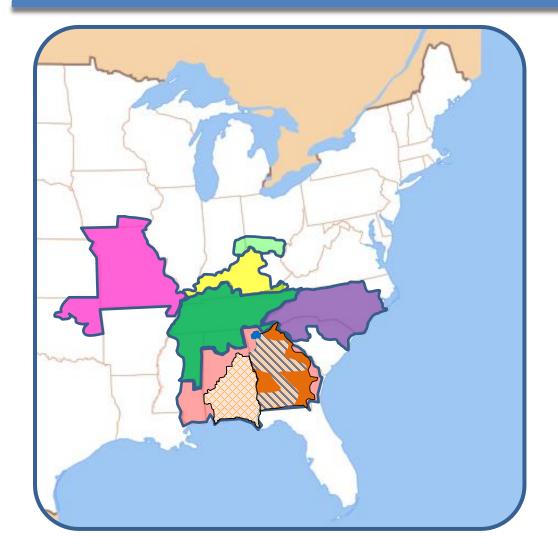
Southeastern Regional Transmission Planning Process (SERTP)

- 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
- Region has expanded several times in both size and scope since formation (most recently in 2014) to currently include 10 Sponsor utilities
- Began regional implementation of Order 1000 requirements on June 1, 2014
- Began interregional implementation of Order 1000 on January 1, 2015



SERTP Region

SERTP Region



SERTP Sponsors

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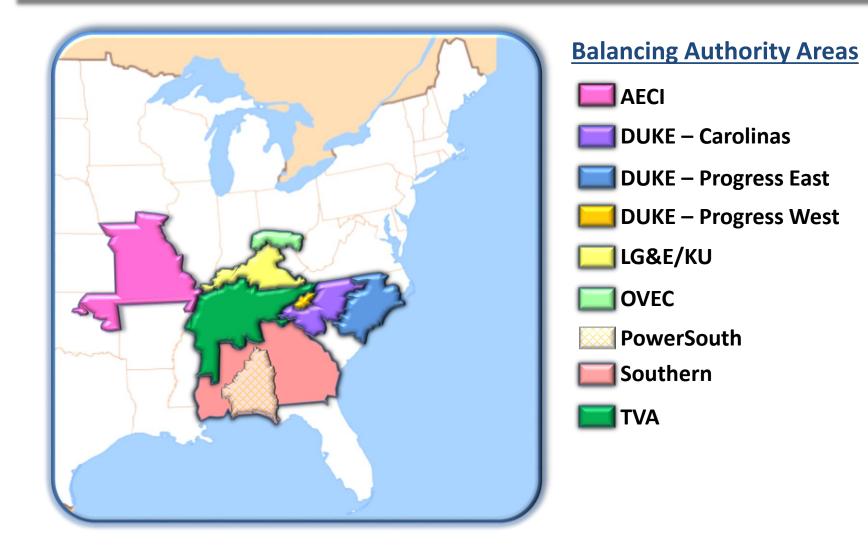
- Spans portions of 14 states
- Includes 9 BAAs



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SERTP Region

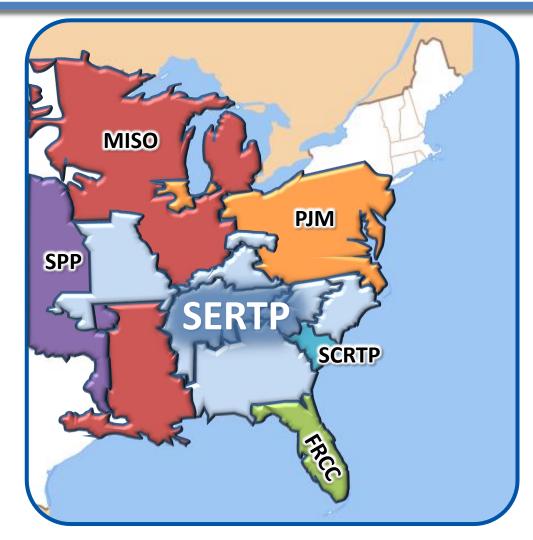




SERTP Region

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SERTP Region - Interregional Seams



SERTP Processes & Timelines

SERTP Regional Models

- SERTP Sponsors develop 12 coordinated regional models
- Models include latest transmission planning model information within the SERTP region
- Typically 3 versions created annually
- Available on the <u>Secure Area</u> of the SERTP website upon satisfying access requirements

No.	Season	Year
1	SUMMER	2019
2		2021
3		2023
4		2024
5		2026
6		2028
7	SHOULDER	2021
8		2023
9		2026
10		2028
11	WINTER	2023
12		2028

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SERTP Processes & Timelines

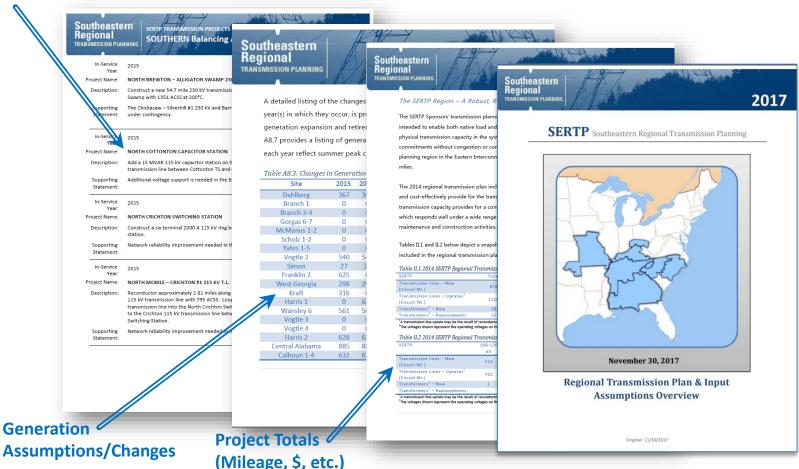
Regional Transmission Plan

Project Descriptions, Drivers, Contingencies

2017 SERTP Regional Transmission Plan

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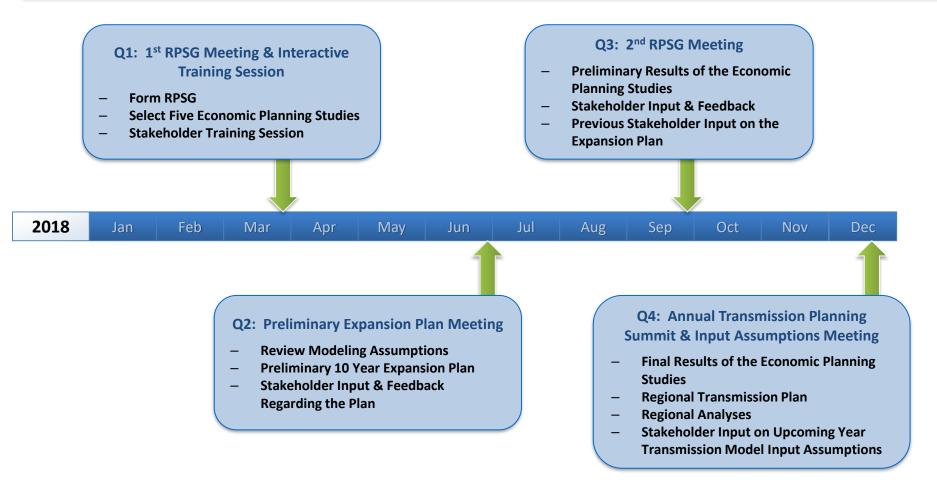
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SERTP Processes & Timelines

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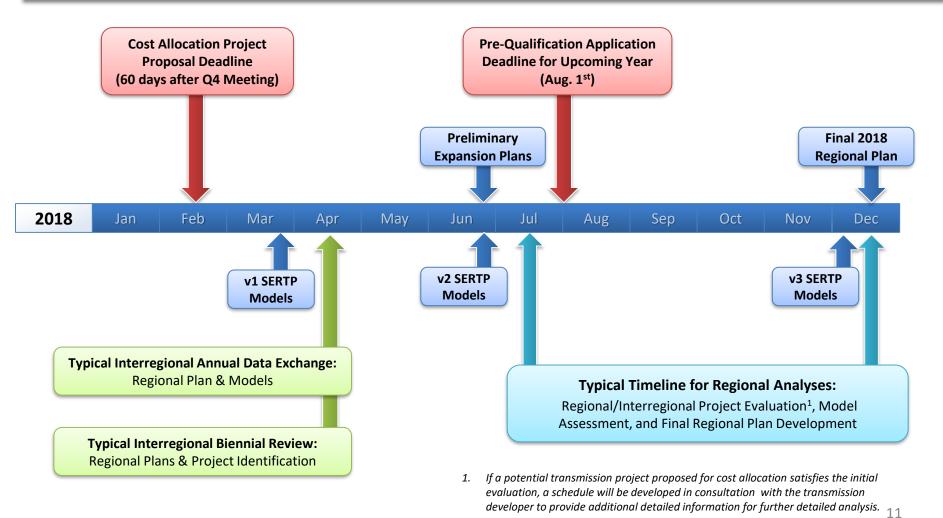
SERTP Quarterly Stakeholder Meetings



SERTP Processes & Timelines

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Regional/Interregional Process Timing



SERTP Processes & Timelines

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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

SERTP Processes & Timelines

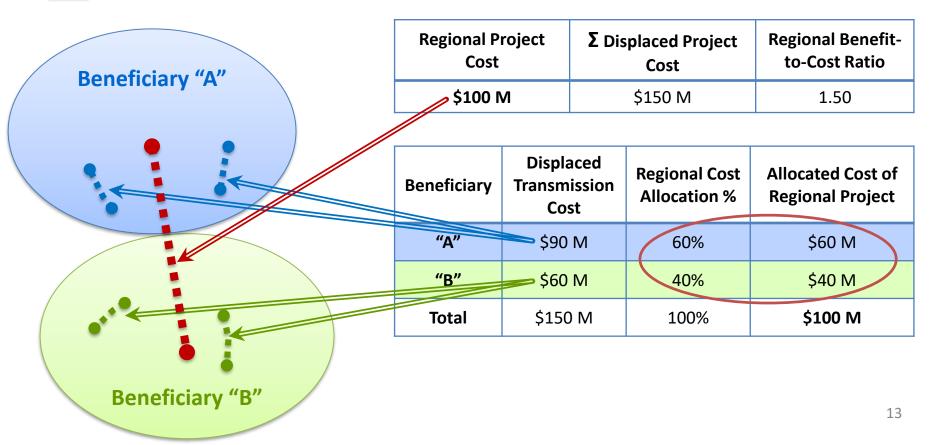
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Simplified Cost Allocation Example

Proposed Regional Facility



Displaced Transmission Facility – Beneficiary "B"





SERTP Processes & Timelines

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Interregional Cost Allocation

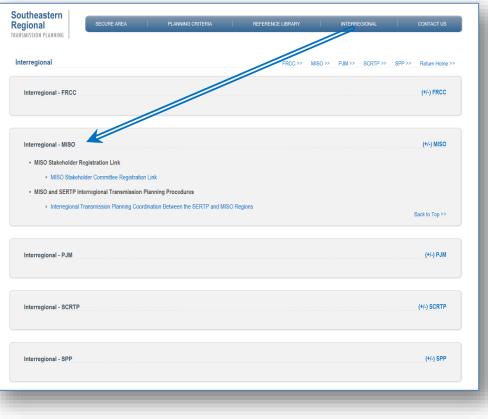
Interregional Project for Cost Allocation Must:

- Interconnect to facilities in both the SERTP and PJM regions
- Have a combined Interregional BTC of 1.25
- Meet regional qualifications
- Be proposed in both regional processes

SERTP Processes & Timelines

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

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SERTP Regional Transmission Plan

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QUESTIONS?

WWW.SOUTHEASTERNRTP.COM

SERTP Processes & Timelines

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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
- 2017 SERTP Economic Planning Study Report



SERTP Processes & Timelines

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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
- 2017 SERTP Regional Analyses Summary



SERTP Processes & Timelines

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2017 Regional Transmission Analyses

