



Americans for a  
**Clean Energy Grid**

# **Regional Transmission Webinar Series**

## **Southeast**

# Who we are and what we do:

We support policies that modernize the nation's electric power network and unlock clean energy and economic opportunities across the country. The backbone of a clean electricity system and a strong economy is a resilient and reliable transmission grid. Smart state and federal policies that improve the way the grid is developed, planned, and paid for will help it become a more robust, reliable, and secure network that supports expansion of renewable energy, competitive power markets, energy efficiency, and lower costs for consumers.

# Regional Transmission Summits

- Oregon (Pacific Northwest) 2010
- Iowa (Midwest) 2010
- Kansas (Heartland) 2011
- Massachusetts (New England) 2012
- Ohio (PJM-Interconnection) 2012
- Nashville (Southeast) 2012
- Denver (Rocky Mountain) 2013
- Minnesota (Great Plains) 2013
- More to come

# Regional Transmission Webinar Series

- Pacific Northwest (*Concluded*)
- Midwest (*Concluded*)
- Heartland – (*Concluded*)
- New England – (*Concluded*)
- PJM – (*Concluded*)
- Southeast – March 13<sup>th</sup>
- Rocky Mountain – April 2<sup>nd</sup>
- Great Plains - (*To Be Determined*)
- National - (*To Be Determined*)
  - *Stay tuned for exact dates and times*

# Southeastern Regional Transmission Planning (SERTP)

John Lucas, Southern Company  
March 2014



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**SOUTHERN  
COMPANY**

# Southeastern Regional Transmission Planning (SERTP)

- The SERTP process provides an open and transparent transmission planning forum for transmission providers to engage with stakeholders regarding transmission plans in the region.
- The expanded SERTP will initiate regional implementation of the Order No. 1000 directives beginning June 1, 2014.

Associated Electric  
Cooperative Inc.  
A Touchstone Energy® Cooperative

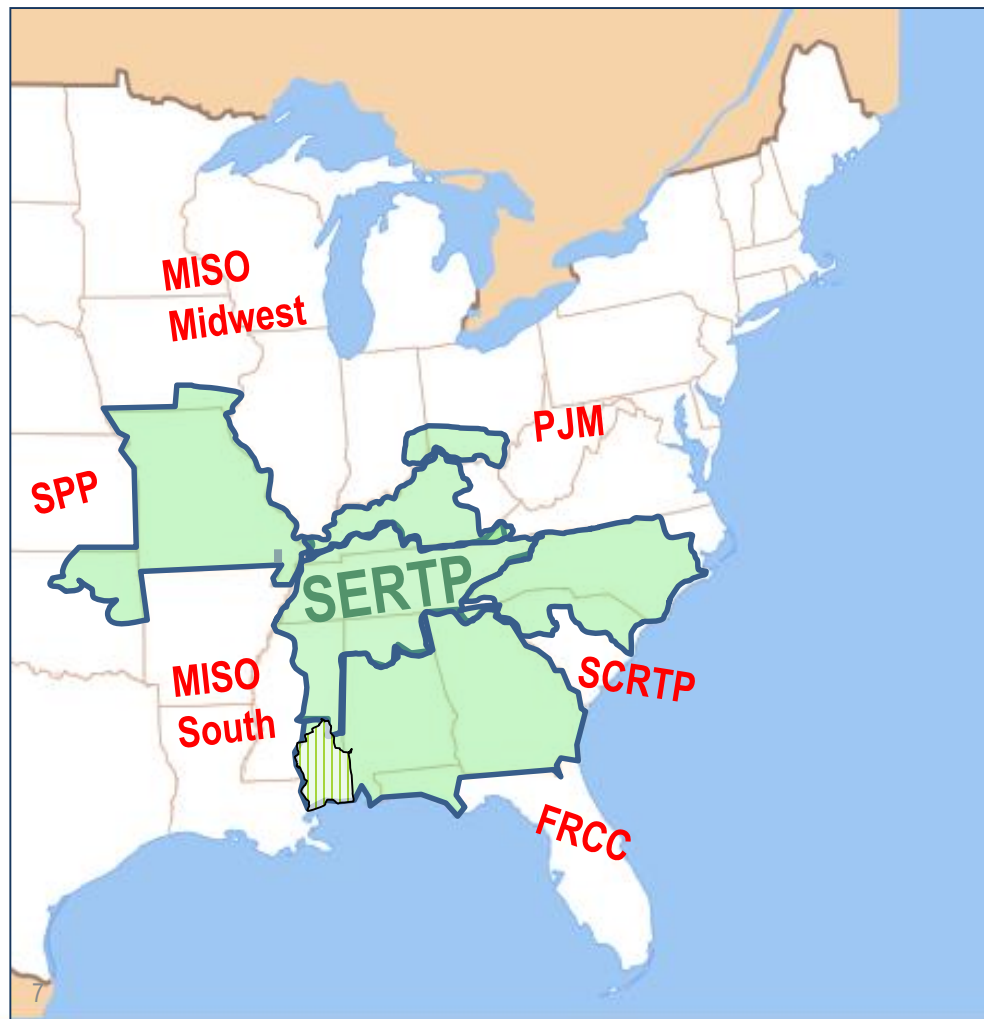


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# Recent SERTP Developments



## Initial SERTP region:

- Included Southern, GTC, MEAG, Dalton, SMEPA and PowerSouth
- 4 states and 35,700 miles of transmission lines

## Recent Developments:

- 2012 added TVA, LG&E/KU, OVEC and AECI
- 2013 addition of Duke Energy (Carolinas and Progress)
- SMEPA joined MISO region in December 2013

SERTP is one of the largest regional transmission planning processes in the United States:

- Includes portions of 14 states and 84,500 miles of transmission lines
- Regions surrounding SERTP include MISO, PJM, SPP, Florida (FRCC) and South Carolina (SCRTS)



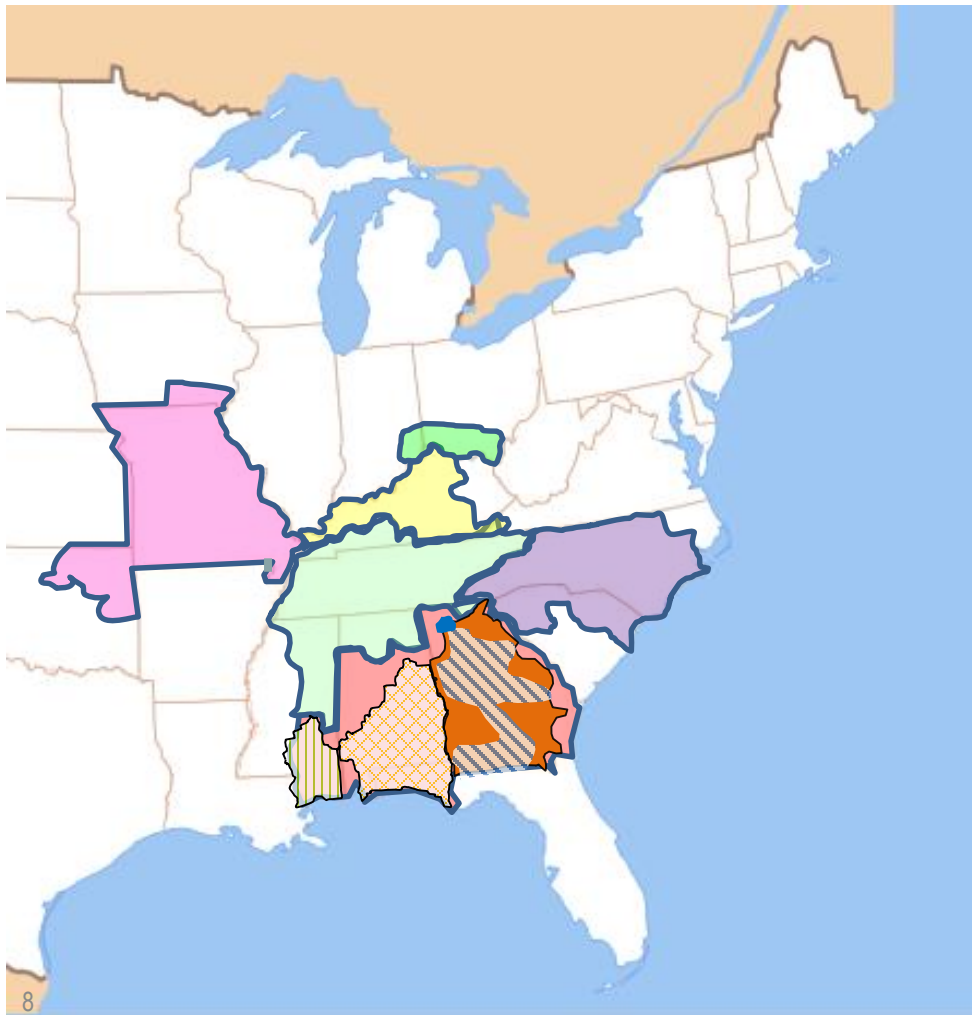
\* SMEPA Now in MISO













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# SERTP Regional Characteristics



	Southern		TVA
	GTC		AECI
	MEAG		LG&E / KU
	Dalton		OVEC
	PowerSouth		Duke Energy (Carolinas and Progress)

Region comprised of :

- FERC jurisdictional (~60%) and non-jurisdictional (~40%) utilities
- Non-RTO region, firm physical transmission service market

 \* SMEPA Now in MISO



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# SERTP Regional Planning

- Processes Designed to Meet Order No. 1000's Requirements while Being Consistent with the Region's Unique Characteristics
  - Significant role of nonjurisdictional utilities
  - Firm physical transmission service markets
    - Transmission is built in coordination with generation additions consistent with long-standing regional planning practices and state protocols;
    - Transmission system is planned and expanded to address congestion in advance of the commencement of long-term firm transmission service commitment;
    - Transmission customers do not make congestion payments.
  - Integrated Resource Planning (“IRP”) processes
    - Often state-regulated (formal and informal)
    - Transmission designed to meet resource needs; Transmission planning process does not make load growth or generation assumptions.



# Order 1000 Regional Process – Key Refinements

- Key regional refinements, among other items, include:
  - Adoption of a pre-qualification feature (both financial and technical) for transmission developers interested in proposing regional transmission projects;
  - Modifications to governance and non-jurisdictional board approval to provide an opportunity for such entities to consult, collaborate, inform, and/or provide recommendations;
  - Refinements to proposal qualification criteria that a project must at least 100 miles in length, to provide an alternative that a project may be between 50 and 100 miles if it displaces planned transmission projects in at least two balancing authority areas or two states (retains regional in nature and 300 kV or greater); and
  - Revisions to the avoided cost allocation methodology to add consideration of potential savings/additional costs in system transmission energy losses.



# Other Transmission Related Matters

- Inter-regional issues:
  - Remote wind deliveries
- Physical Security Standards (Recent FERC Order)
- MATS Compliance Impacts



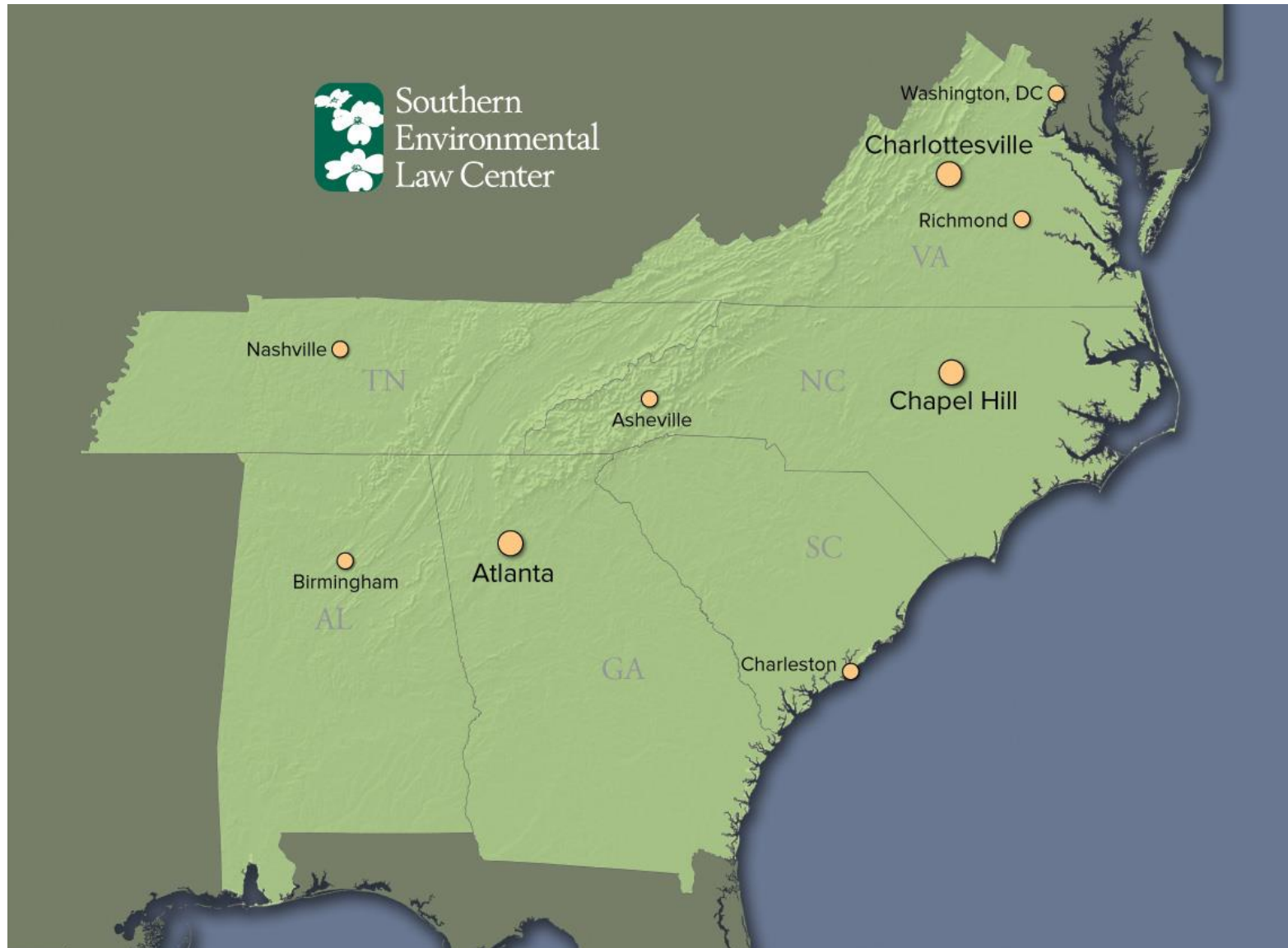
# Southeastern Transmission: Issues and Challenges



Frank Rambo  
Southern Environmental Law Center  
March 13, 2014



Southern  
Environmental  
Law Center



# Unprecedented Change Nationally

- Investments

- As much as \$100 billion will be invested each year for the next 20 years (\$2 trillion)
  - Brattle Group, *Transforming America's Power Industry*

- Demands

- Economics
- Environmental
  - Greenhouse Gases



# Unprecedented Change Regionally

## Fossil Fuel Generation

- Coal-Fired Plants Retiring
  - 2010-2017
    - Approximately 17 GW
- Natural Gas Plants Coming on Strong
  - 2008: 8% of region's generation
  - 2012: 26%

# Unprecedented Change Regionally

## Renewables - Solar

State	Projects Operating, Under Construction or Under Development (MW)
Alabama	1
Georgia	757
North Carolina	778
South Carolina	7
Tennessee	74
Virginia	48
<b><i>Regional Total</i></b>	<b>1,665</b>

# Unprecedented Change Regionally

## Renewables - Solar

COMMISSIONERS:

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LAUREN "BUBBA" McDONALD, JR.  
STAN WISE



DEBORAH K. FLANNAGAN  
EXECUTIVE SECRETARY

**ORDERED FURTHER**, that Georgia Power Company shall expand its generation mix with the addition of 525 MW of solar resources. One hundred MW will be Distributed Generation and the remaining 425 MW will be Utility Scale solar. Further, 260 MW will be brought online by 2015 and the remaining will be brought online by 2016.

June 28, 2013

Decided: July 11, 2013

APPEARANCES:

On behalf of the Georgia Public Service Commission Public Interest Advocacy Staff:

JEFFREY C. STAIR, ESQ.  
DANIEL WALSH, ESQ.  
ROBIN COHEN, ESQ.

On behalf of Georgia Power Company:

KEVIN C. GREENE, ESQ.  
BRANDON MARZO, ESQ.  
JACK JIRAK, ESQ.  
STEVE HEWITSON, ESQ.

On behalf of Association for Fairness in Rate-making:

DAN MOORE

On behalf of Georgia Association of Manufacturers:

CHARLES B. JONES, III, ESQ.

# Unprecedented Change Regionally

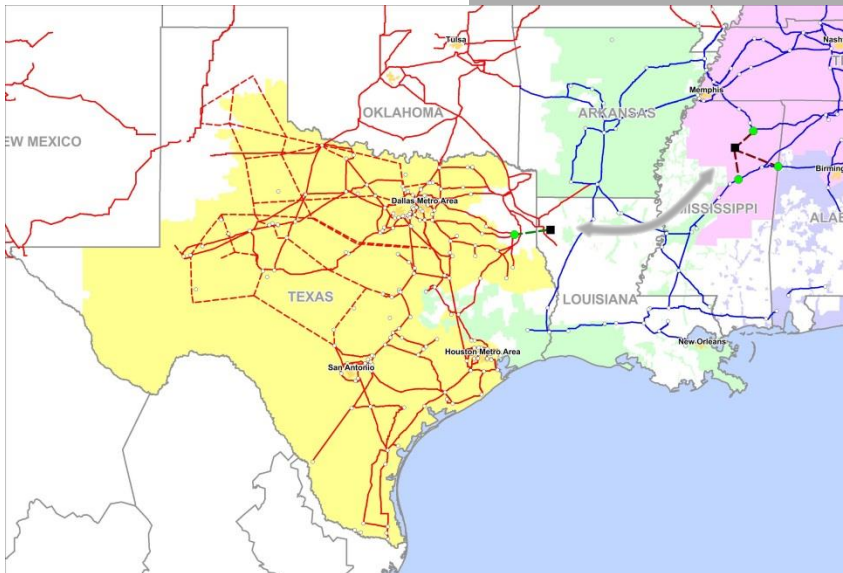
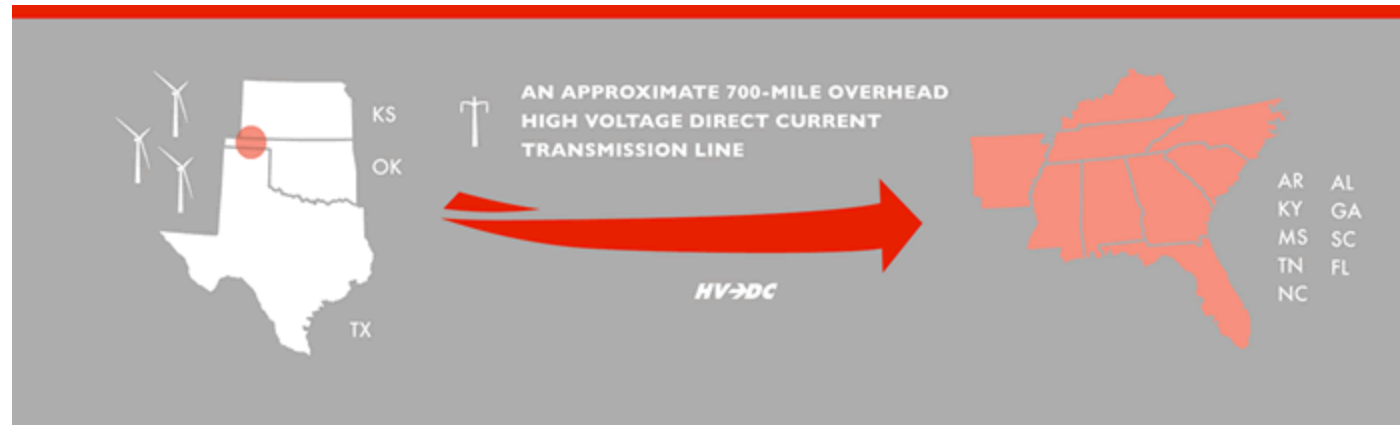
## Renewables - Wind

### Ten Eastern States have Shallow-Water Offshore Wind Resources Comparable to Demand



# Unprecedented Change Regionally

## Renewables - Wind



# FERC Order 1000 and SERTP

- Regional requirements
  - FERC order on SERTP compliance filing
    - Key Issues for PIOs
      - Regional planning
      - Public policy requirements
- Interregional requirements
  - Awaiting FERC Order
    - Key Issues for PIOs
      - Joint identification and joint evaluation
      - Data exchange
      - Transparency



# FERC Order 1000 and SERTP



Questions?

# THANK YOU FOR JOINING US

- Please visit our site at [www.cleanenergytransmission.org](http://www.cleanenergytransmission.org)
- Follow us on Twitter [@clean\\_energy\\_grid](https://twitter.com/clean_energy_grid)
- Join us for future webinars and events, and feel to reach out to us for any transmission-related questions.

