5TH ANNUAL SOUTHEAST CLEAN POWER SUMMIT

March 15-16, 2016
Hyatt Regency Birmingham -The Wynfrey Hotel
Birmingham, AL

Pre-Conference Workshop
The Outlook for Net Metering and Other Key Solar Policies in the Southeast
Tuesday, March 15, 2016

Case Studies and Presentations from:
- Alabama Public Service Commission
- Central Electric Power Cooperative
- Entergy
- Florida Power & Light (FPL)
- Holland & Hart
- Southern Alliance for Clean Energy (SACE)
- Southern Company Services
- Southern Wind Energy Association
- Tennessee Valley Authority (TVA)
- Tradewind Energy
- Union of Concerned Scientists

EUCI is authorized by IACET to offer 1.1 CEUs for the conference and 0.4 CEUs for the workshop.
States in the Southeastern U.S. (SE region) are making tremendous strides moving toward a clean energy economy. The states in this region are defining goals and priorities, focusing on job development opportunities, and otherwise taking advantage of the unique character, background, and resources of the region. There is a common misconception that the Southeast does not have substantial renewable resources. The truth is the Southeast has more than sufficient local renewable energy resources to support a strong clean energy economy, and utilities are making substantial changes to embrace clean energy.

In the past, Southeastern states have been reluctant to create market signals attractive to renewable energy developers and investors, including appropriate incentives and government initiatives. Until recently, the SE region has been known for its reluctance to accept renewable energy as a viable alternative to coal. Things, however, are changing rapidly as more states in the region incentivize the adoption of solar. As the renewable energy market matures and the prices for the technology drops, states and their utility companies are starting to work out the regulations that are appropriate in the SE region for promoting better renewable energy infrastructure. Grid modernization is being adopted increasingly by utilities under pressure to increase operating efficiency and make progress towards clean energy goals by maximizing the integration of solar, wind, and other local and renewable sources of power.

This conference will provide vital information regarding the future of the Southeast’s clean power supply and infrastructure. It will feature experts from throughout the region discussing the most current information and what it’s likely to mean for stakeholders in the region. The conference will also explore the current status of the EPA’s Clean Power Plan (CPP) rules and pending legal challenges, as well as how the role of renewable energy in achieving compliance for the CPP. Attendees will take away valuable knowledge within the clean energy field for their company and have the opportunity for quality networking with industry peers.

WHO SHOULD ATTEND

- Utility professionals involved with generation and procurement of power
- Independent power producers
- Federal, state, county, and local regulatory agencies
- ISO/RTO professionals
- Financial and legal professionals interested in cleantech development
- Energy consultants, project managers, and engineers
- Cleantech developers, manufacturers, and distributors
- Permitting and siting professionals
- Academia involved with renewable energy R&D
- Energy service companies
- Renewable energy trade associations

LEARNING OUTCOMES

- Discuss best practices in renewable energy development and implementation
- Evaluate the progress of renewables such as wind and solar in the Southeast region
- Critique regulatory perspectives on the future demand for renewable resources
- Evaluate the legal status of the Clean Power Plan and other EPA mandates and their impact on reliability in the SE region
- Discuss how PPAs or other contractual structures can best be used in the SE region
- Identify the positive impact of distributed generation
- Identify the ways in which solar development is having a meaningful impact on the SE region
- Review cost-benefit analyses of specific types of renewable energy projects
AGENDA

Tuesday, March 15, 2016

12:30 – 1:00 p.m.  Registration

1:00 – 1:15 p.m.  Opening Remarks

1:15 – 1:45 p.m.  Keynote Address: Alabama Public Service Commission

Traditionally, Alabama has not been known as a renewable energy leader. Like most other states in the Deep South, it lacks a renewable energy mandate or policy environment to encourage renewable energy. However, the attitudes of utilities, their industrial customers and regulators are changing across the South – including in Alabama. This opening session will provide a Commissioner’s perspective on several important topics that will be discussed throughout the conference including:

- Solar developments in Alabama
- The EPA’s Clean Power Plan (CPP)
- Grid modernization

- Jeremy H. Oden, Commissioner, Alabama Public Service Commission

SESSION I: SOLAR, WIND AND DISTRIBUTED GENERATION

1:45 – 2:30 p.m.  Solar Energy Centers at Florida Power & Light

On many levels, FPL stands out as a clean energy leader, having one of the lowest emissions profiles and offering one of the leading energy efficiency programs among utilities nationwide. The company is building three new solar energy centers before the end of 2016, adding more than 1 million solar panels (roughly, 45,000 typical residential rooftop systems). The additional solar generation will help to diversify FPL’s generation without increasing costs to the customer. Furthermore, the new solar projects will support FPL’s clean generation profile. In this session the utility will discuss the ongoing challenges, opportunities, and current efforts to continue to develop the natural resources available to FPL.

- Buck Martinez, Senior Director – Project Development, Florida Power & Light (FPL)

2:30 – 3:15 p.m.  Renewable Energy and Reliability

As Southeastern utilities rely on greater quantities of wind and solar energy, what will be the impact on utility systems? Using a unique, decade-plus dataset, SACE has evaluated the impact of multi-gigawatt renewable energy scenarios on major Southeastern utilities. The results indicate what contribution renewables will make to serving peak loads, how significantly they will change the operating practices of system dispatchers, and how much (if any) risk there may be of the California “duck curve” migrating to the Southeast.

- John D. Wilson, Research Director, Southern Alliance for Clean Energy (SACE)

3:15 – 3:30 p.m.  Afternoon Break

3:30 – 4:15 p.m.  Distributed Energy Resources (DER) – Game Changer or another Tool in the Toolbox?

DER is a new “hot item” that has the attention of utilities, vendors, governmental agencies and consumers, both nationally and around the world. With the advent of new technologies and their continuing cost decreases, DER in coming years may become a significant factor in providing energy to consumers. Yet, there are multiple definitions of what comprises DER and this is causing confusion as to its uses and its cost effectiveness. Also, adding DER to the current distribution grid may have immediate and long term impacts. Some of these impacts include safety, reliability, operational complications and long-term design and planning issues. In addition, some aspects of DER may alter the “standard” customer/service provider arrangements that have characterized the role of vertically integrated utilities for decades.

This presentation will highlight some of the uniqueness and complexities of DER, and identify questions and issues that must be addressed. Some of these broad issues and questions include: DER’s interface with the distribution grid, federal and state regulatory policies, cost allocation (winners and losers?), planning and integration of DERs. Also, do DERs have different roles in the various market designs – RTOs, vertically integrated systems, IDSOs and future markets? While this presentation is not intended to provide answers to these issues and questions, it will bring focus and discussions to areas that need significantly more detail than what has occurred to date.

- Howard Smith, Manager – Distributed Energy Resource Policy, Southern Company Services
AGENDA

Tuesday, March 15, 2016 (Continued)

4:15 – 5:00 p.m.  Development Considerations for Utility-Scale Solar in the US Southeast
Development of large solar power facilities pose unique challenges in the US Southeast. In this session, a discussion of land-, environmental-, interconnection-, and permitting-related considerations will be presented, along with an overview of two newly built projects in Georgia totaling 100 MW.
- Mark Hannifan, Senior VP – Development and New Initiatives, Tradewind Energy

5:00 – 6:00 p.m.  Networking Reception

Wednesday, March 16, 2016

7:45 – 8:15 a.m.  Continental Breakfast

8:15 – 9:00 a.m.  Community Solar and the South Carolina Electric Cooperatives
The 20 electric cooperatives in South Carolina serve members in all 46 counties of the state. In 2016, the cooperatives plan to implement a community solar program among their distribution territories in South Carolina. Community solar is a viable option for the cooperative model and will allow its members the ability to be a part of solar without having to put solar panels on their roofs. This presentation will provide some of the details of the community solar plan for the cooperatives.
- Scott Hammond, Project Administrator, Central Electric Power Cooperative

9:00 – 9:45 a.m.  Renewable Energy Program Alignment at TVA
Distributed generation will play an increasingly important role in the future of meeting customers’ energy needs. The Tennessee Valley Authority (TVA) offers various renewable programs and a new approach to defining distributed generation – integrated value. In this session, TVA will talk about its renewable offerings and discuss highlights and challenges in providing long-term stability and sustainability for renewable energy growth in the region. The alignment of its optional programs, administered through participating local power companies and market-based programs, will also be discussed.
- Neil Placer, Senior Manager – Renewables Group, Tennessee Valley Authority (TVA)

9:45 – 10:00 a.m.  Morning Break

10:00 – 10:45 a.m.  Key Features of Power Purchase Agreements -- Distributed and Utility Scale Solar Updates
This presentation will center on unique legal and commercial issues associated with the sale and purchase of energy from all types of renewable technologies, with special emphasis on how PPAs or other contractual structures can best be used in the context of the Southeast region, and will include an overview of recent activity in the utility scale solar market in the Southeast by both regulated utilities and non-regulated entities. It will also highlight some best practices and what to look for in the near future.
- Ashley Wald, Partner, Holland & Hart

SESSION II: GRID MODERNIZATION AND CLEAN ENERGY

10:45 – 11:30 a.m.  Lots of Solar and Mitigating the Grid Impacts
Recognizing the potential impacts on Southeastern communities of the clean energy transition, the Union of Concerned Scientists (UCS) is working to study the potential for economic diversification. Mitigating the impact of renewables (especially solar) on a modernized grid is a topic that resonates with utilities across the Southeast region. The following topics will be discussed:

- Fact – feeders are not same as grid network
- Inverters offer help, so look there first
- Wind integration lessons learned
- New approaches adopted at the state level

- Mike Jacobs, Senior Energy Analyst, Union of Concerned Scientists
AGENDA

Wednesday, March 16, 2016 (Continued)

11:30 a.m. – 12:15 p.m.  How and Where Clean Energy Fits into the Grid Modernization Picture

Grid modernization over the coming years will play a strategic role in helping achieve several objectives, including providing cleaner energy alternatives and responding to a rapidly changing landscape. Various initiatives will allow Entergy’s regulated utilities to take advantage of utility-scale and distributed-scale generation as well as other types of resources, all of which will be important to achieve long-term clean energy goals. Furthermore, such efforts will allow the company to utilize more optimal supply and demand-side resources, thereby helping mitigate unnecessary and costly redundant operations and infrastructure. To help drive alignment and manage these efforts, a new group was just created within Entergy’s utility business called Commercial Development & Innovation (CD&I). The primary focus of CD&I is to develop and successfully implement a variety of concepts around grid modernization, new products and services, thus improving the customer experience as well as addressing new and emerging technologies all in the context of a changing regulatory environment. In a nutshell, the presentation will address how Entergy and its five regulated, vertically-integrated utilities are evolving to better meet their customers’ needs now and into the future.

- Andrew Owens, Director – Regulatory Research, Entergy

12:15 – 1:15 p.m.  Group Luncheon

SESSION III: THE EPA’S CLEAN POWER PLAN

1:15 – 2:00 p.m.  Wind Energy’s Role in Clean Power Plan (CPP) Compliance

Wind contracts with nearly every major Southeastern utility – as well as future investments in resource plans published by SWEPCO, TVA, Entergy and others – show that the SE region has an appetite for wind energy in today’s market. Will that interest grow with implementation of the Clean Power Plan (CPP)? As states begin to develop implementation plans, wind energy is expected to provide a low-cost tool; however, questions still remain about wind energy’s role in compliance and the newly-developed Clean Energy Incentive Program. Current technological advancements and cost data will be shared so stakeholders can best evaluate wind energy opportunities for CPP compliance.

- Simon Mahan, Director, Southern Wind Energy Association

2:00 – 2:45 p.m.  Multi-State Utilities and Clean Power Plan (CPP) Implementation

Most Southeastern utilities dispatch resources to serve customers across multiple states. However, the Southeast does not have a centralized energy market or a regional transmission organization to coordinate compliance across state jurisdictions. The presentation will share findings from an analysis of the compliance obligations of multi-state utilities in the Southeast. The presentation will also explore the implications for smaller utilities – i.e., can smaller Southeastern utilities with just one or two power plants take advantage of the CPP’s flexibility options?

- John D. Wilson, Research Director, Southern Alliance for Clean Energy

2:45 – 3:15 p.m.  Networking Break

3:15 – 4:00 p.m.  Grid Operators’ and Balancing Authorities’ Role

Regional transmission operators (RTOs), independent system operators (ISOs) and other coordinating regional entities (REs) are tasked with maintaining reliability and resource adequacy in their service territories. Many of these organizations are already on record with concerns about the CPP and MATS impacts, especially true for regions that rely on coal for the bulk of their generation. With the onus on each state to develop its compliance plan and the threat of an EPA-imposed plan should a state fail to submit a plan, along with the reliability mandates of FERC and NERC, these balancing authorities face considerable challenges for future resource adequacy planning. In this session representatives from RTO/ISO/RE organizations will explore the reliability challenges and their potential responses along with discussing:

- The ISO/RTO Council’s reliability safety valve concept
- States’ consultation on compliance with the operator/balancing authority
- Can RTOs/ISOs act as a regional compliance clearinghouse for the states?
- EPA’s interim goal planning challenges

- John Lawhorn, Director – Regulatory and Economic Studies, Midcontinent ISO (MISO) (invited)
AGENDA

Wednesday, March 16, 2016 (Continued)

4:00 – 4:45 p.m.  Prospects for Renewables to Meet Clean Power Plan (CPP)
Clean Power Plan (CPP) compliance with renewable energy requires significant growth in wind and solar supplies. This session will describe several analyses by utility organizations of as much as 30% of electric energy coming from renewable resources, and the transmission and integration such a percentage may require. Additional analyses of how far states have come already with renewables and comparisons of states’ growth rates in use of renewables puts this option into perspective.

- Mike Jacobs, Senior Energy Analyst, Union of Concerned Scientists

4:45 p.m.  Conference Adjourns

“Great job. Very informative and a good group of attendees.”
– SVP, Development, SoCore Energy

This summit provided great insight and contacts on renewable energy in the South; especially from private developers, utilities, and other stakeholders.”
– Renewable Energy Manager, Southern Alliance for Clean Energy
OVERVIEW

Policy is a driving factor for the development of solar energy in the Southeast and across the country. However, solar policy changes are occurring at a rapid pace, making it challenging to keep up and evaluate market impacts. This workshop will discuss the key state, utility, and local policies impacting solar development and what their outlook is for the Southeastern states.

LEARNING OUTCOMES

- Identify the major policies driving solar development in the Southeast
- Discuss how policies in the Southeast compare within the region and to those in the rest of the country
- Review policy trends and recent proposed changes in order to gain insight into the outlook for the Southeast solar market
- Apply local policy lessons from North Carolina – the leading Southeast state in solar – to other Southeastern states

AGENDA

Tuesday, March 15, 2016

8:00 – 8:30 a.m.  Registration and Continental Breakfast
8:30 a.m. – 12:00 p.m. Workshop Timing

Introduction: The Relationship between Policy and Solar Development

Net Metering and Rate Design Issues in the Southeast
  o Net metering policy details and how they compare to those in the rest of the country
  o Net metering at municipal and cooperative utilities
  o Recent and proposed policy changes, outlook for the future
  o Rate design issues and trends in the Southeast

Third-Party Ownership
  o Legal barriers to third-party ownership models
  o Recent and proposed policy changes, outlook for the future

Other State Solar Policy Issues in the Southeast
  o Renewable portfolio standards
  o State tax credits
  o PURPA standard offer contracts

Emerging Local Solar Policy Issues in the Southeast
  o Zoning and solar ordinances
  o Land use and siting issues

North Carolina Local Policy Lessons
  o How North Carolina has dealt with a large increase in solar
  o What issues are likely to reappear in other Southeastern states
WORKSHOP INSTRUCTORS

Tommy Cleveland / Renewable Energy Project Coordinator / North Carolina Clean Energy Technology Center

Tommy Cleveland is the Renewable Energy Project Coordinator where he leads the Center’s solar energy testing and demonstration program, works toward Plug and Play photovoltaic codes, standards, and systems, conducts renewable energy site assessments and provides technical support to a wide variety of solar projects and stakeholders across North Carolina and beyond. From 2008 to 2012, Mr. Cleveland taught the solar energy course in Mechanical and Aerospace Engineering department at N.C. State, and is now teaching solar courses in the Environmental Technology and Management department. He has been a licensed professional engineer (PE) in North Carolina since 2007. He graduated Sum Cum Laude with a B.S. in Mechanical Engineering and a minor in Business Management and a M.S. in Mechanical Engineering from N.C. State University. His interest in renewable energy led him to the Solar Center where he performed his master's thesis on energy metering methods for domestic solar hot water systems. Industry Involvement: Board of Directors, Solar Rating and Certification Corporation (SRCC); Solar America Board for Codes and Standards (Solar ABCs) Steering Committee; Member of N.C. Sustainability Association and American Solar Energy Society (ASES)

Autumn Proudlove / Sr. Policy Analyst / North Carolina Clean Energy Technology Center

Autumn Proudlove is a Sr. Policy Analyst at the N.C. Clean Energy Technology Center, joining the Center’s Energy Policy team in January 2014. She manages the Center’s work on the SunShot Solar Outreach Partnership- a Dept of Energy program focused on providing education and technical assistance to local governments across the country. She also works on the Database of State Incentives for Renewables and Efficiency (DSIRE), authoring content for four states. Ms. Proudlove received her Master’s degree in Energy Regulation and Law, as well as a Certificate in Climate Law, summa cum laude, from Vermont Law School (VLS). While at VLS, she worked for the school's Institute for Energy and the Environment, examining solar soft cost reduction opportunities as part of the U.S. Department of Energy’s SunShot Plug and Play Solar PV project. Ms. Proudlove received her Bachelor’s degree in Environmental Studies, with a minor in Economics, from Dartmouth College in 2012.
INSTRUCTIONAL METHODS

Case Studies, PowerPoint presentations, and panel discussions will be used.

REQUIREMENTS FOR SUCCESSFUL COMPLETION OF PROGRAM

Participants must sign in/out each day and be in attendance for the entirety of the conference to be eligible for continuing education credit.

IACET CREDITS

EUCI has been accredited as an Authorized Provider by the International Association for Continuing Education and Training (IACET). In obtaining this accreditation, EUCI has demonstrated that it complies with the ANSI/IACET Standard which is recognized internationally as a standard of good practice. As a result of their Authorized Provider status, EUCI is authorized to offer IACET CEUs for its programs that qualify under the ANSI/IACET Standard.

EUCI is authorized by IACET to offer 1.1 CEUs for the conference and 0.4 CEUs for the workshop.

EVENT LOCATION

A room block has been reserved at the Hyatt Regency Birmingham -The Wynfrey Hotel, 1000 Riverchase Galleria, Birmingham, AL 35244, for the nights of March 14-15, 2016. Room rates are $142, plus applicable tax. Call 1-205-705-1234 for reservations and mention the EUCI program to get the group rate. The cutoff date to receive the group rate is February 14, 2016 but as there are a limited number of rooms available at this rate, the room block may close sooner. Please make your reservations early.

REGISTER 3 SEND THE 4TH FREE

Any organization wishing to send multiple attendees to these conferences may send 1 FREE for every 3 delegates registered. Please note that all registrations must be made at the same time to qualify.

PROCEEDINGS

A copy of the conference proceedings will be distributed to attendees at the event. If you are unable to attend or would like to purchase additional copies, a downloadable link will be available two weeks after the conference is complete. The cost per download is US $395. The link includes visual presentations only. Upon receipt of order and payment, the link will be sent to you via email.

NOTE: All presentation sales are final and are nonrefundable.
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EARLY BIRD ON OR BEFORE FEBRUARY 24, 2016: US $1595

**SOUTHEAST CLEAN POWER SUMMIT**

CONFERENCE ONLY

MARCH 15-16, 2016: US $1395

EARLY BIRD ON OR BEFORE FEBRUARY 24, 2016: US $1195

**THE OUTLOOK FOR NET METERING AND OTHER KEY SOLAR POLICIES IN THE SOUTHEAST PRE-CONFERENCE WORKSHOP ONLY**

MARCH 15, 2016: US $595

EARLY BIRD ON OR BEFORE FEBRUARY 24, 2016: US $495

I’M SORRY I CANNOT ATTEND, BUT PLEASE SEND ME A LINK TO THE CONFERENCE PROCEEDINGS FOR US $395.

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How did you hear about this event? (direct e-mail, colleague, speaker(s), etc.)

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All cancellations received on or before February 12, 2016, will be subject to a US $195 processing fee. Written cancellations received after this date will create a credit of the tuition (less processing fee) good toward any other EUCI event or publication. This credit will be good for six months. In case of event cancellation, EUCI’s liability is limited to refund of the event registration fee only. For more information regarding administrative policies, such as complaints and refunds, please contact our offices at (201) 871-0474.