Main Summit

Thursday, March 5, 2020

7:30-8:20 Registration & Networking Breakfast Sponsored by:

perspecta LABS

8:20-8:30 Welcome by the Summit Chair

Gil Rodgers, Senior Managing Director, ENERGYZT

8:30-9:00 Keynote Address

Larry Gasteiger, Executive Director, WIRES LLC

9:00-10:00 Panel Discussion: Potential Impacts of the FERC Incentives NOI on Transmission Investment

The Power Act of 2005 allowed FERC to create incentives for projects that were considered high-risk, which triggered a wave of investment in transmission projects. Often overlooked in the promulgation of the Act is that it also allowed utilities to add advanced technologies to their systems. To date there has been little deployment of these technologies. However, FERC has recently opened an inquiry into how grid-enhancing technologies are currently used in transmission planning and operations. This panel will examine the challenges to their deployment and implementation, and what the Commission can do regarding these challenges, including:

- What incentives might be created for the adoption of grid-enhancing technologies?
- Should utilities and RTOs/ISOs be required to adopt these technologies?
- How can RTO/ISO planning better incorporate them?

Moderator:

J. Daniel Skees, Partner, MORGAN, LEWIS & BOCKIUS LLP

Panelists:

Randolph Elliott, Former Senior Director, Regulatory Counsel, NATIONAL RURAL ELECTRIC COOPERATIVE ASSOCIATION (NRECA)

Hudson Gilmer, CEO, LINEVISION
10:00-10:30 Networking Break

10:30-11:00 Project Case Study: Artificial Island Project

The Artificial Island Project is the first competitive project within PJM and will be the first transmission line project in PJM to enter service with cost containment. This presentation will describe the many innovations that have provided a least-cost solution through both project planning and project execution.

Lawrence Willick, Senior Vice President, LS POWER DEVELOPMENT, LLC

11:00-Noon Panel Discussion: Investing in Resiliency

The need to increase grid resilience to extreme weather events and increased cyber threats is becoming ever more acute. At the same time resilience is much harder to measure and justify than reliability, and customers are fighting against adding potentially new infrastructure. This panel will discuss how regulators are managing these costs and risks:

- Are there viable alternatives to cost of service that would yield more economic results for ratepayers?
- How can the need to replace aging infrastructure be responsibly reconciled with flat to negative load growth?
- Will expanded utility liabilities change the planning paradigm from operate to failure to something else?
- Dealing with the increasing pace of innovation in rate cases and monetization of system improvements

Moderator:
J. Daniel Skees, Partner, MORGAN, LEWIS & BOCKIUS LLP

Panelists:
Peter C. Balash, Ph.D., Senior Economist, UNITED STATES DEPARTMENT OF ENERGY’S NATIONAL ENERGY TECHNOLOGY LABORATORY (NETL)
Cary B. Hinton, Director, Office of External Affairs, PUBLIC SERVICE COMMISSION OF
THE DISTRICT OF COLUMBIA
Morris Schreim, Senior Commission Advisor, MARYLAND PUBLIC SERVICE COMMISSION

Noon-1:30  Group Luncheon

1:30-2:30  Panel Discussion: RTO/ISO Perspectives on Meeting Transmission Issues of the Future

RTOs and ISOs have a unique role in planning to meet the future needs of the grid. However, the electric system is on a trajectory to radically change during the current planning horizon. This panel will provide their perspectives on how RTOs and ISOs are planning to meet tomorrow’s challenges today, including:

- What future-looking issues are emerging as focal points of market reforms?
- How are things such as the growth of DERs being handled in their planning?
- What actions can be taken to assure that essential reliability services are available as the generation mix continues to change?
- Are RTO/ISO regulatory and governance structures advancing to meet the acceleration from technological innovation?

Moderator:
Pamela Tsang Wu, Associate, MORGAN, LEWIS & BOCKIUS LLP

Panelists:
Kurt Bilas, Executive Director of Government Relations, MISO
Craig Glazer, Vice President, Federal Government Policy, PJM INTERCONNECTION LLC
Antoine Lucas, Vice President of Engineering, SOUTHWEST POWER POOL (SPP)

2:30-3:00  Networking Break

3:00-4:00  Panel Discussion: Regional and Interregional Planning Reforms

Despite the widely acknowledged potential benefits of interstate, interregional and inter-interconnection transmission upgrades recently described in a NREL analysis, such projects face major barriers. The most significant of which is infrastructure siting, authority over which is dispersed among individual states, whose interests often diverge. Plus, the question of “who pays” complicates approval of projects that span several states. This panel will explore regional and interregional planning reforms, including:

- Can transmission be planned in conjunction with the addition of transmission?
- Should the consideration of benefits be expanded when considering interregional projects?
• What regional and interregional planning reforms that can unleash transmission development to keep up and serve the needs of the advance of renewable energy?
• If there was more competition would more regional and interregional projects emerge?
• How can states be facilitated to meet their goals?

Moderator:
**David Townley**, *Director of Public Policy*, CTC GLOBAL CORPORATION

Panelists:
**Nathan Benedict**, *Manager, Regulatory Strategy*, ITC HOLDINGS CORP.
**Swaraj Jammalamadaka**, *Vice President, Transmission & Market Fundamentals*, APEX CLEAN ENERGY, INC.
**Stuart Nachmias**, *President & CEO*, CON EDISON TRANSMISSION, INC.
**Mark Sims**, *Manager of Infrastructure Coordination*, PJM INTERCONNECTION LLC

4:00-5:00 Panel Discussion: **Applying Advanced Technologies to Increase Grid Capacity**

The transmission system as it now stands loses a significant amount of energy, but there are opportunities to clean up the grid to increase efficiency.

• What would the implications be of replacing inefficient equipment?
• Could new standards in ratings solve reliability and resiliency problems?
• Can we build more efficiently by incorporating non-wires alternatives in our thinking?
• What are the challenges associated with planning for the continuously evolving transmission grid?

Moderator:
**Vandan Divatia**, *Director, Policy & Interconnections*, EVERSOURCE ENERGY

Panelists:
**Kamran Ali**, *Managing Director, Transmission Planning*, AMERICAN ELECTRIC POWER (AEP)
**Ricardo Marquez, Ph.D.**, *Software Solutions Architect – WPLS, WINDSIM*
**Jack McCall, EVP**, LINDSEY MANUFACTURING CO. and Chair, WATT COALITION
**Shaun Murphy**, *Senior Business Solution Engineer, Applied Innovation*, PJM INTERCONNECTION
**David Townley**, *Director of Public Policy*, CTC GLOBAL CORPORATION

5:00-6:00 Networking Reception
Friday, March 6, 2020

7:30-8:30  Registration & Networking Breakfast

8:30-8:35  Welcome by the Summit Chair
            Gil Rodgers, Senior Managing Director, ENERGYZT

8:35-9:30  Panel Discussion: Interconnection of Offshore Wind

Offshore wind is slated to become a major driving force on the East Coast…but its success will depend to a large extent to the cost and availability of transmission interconnections and the effectiveness of its integration with the grid. With massive projects entering the pipeline in MA, NJ, NY and other states, what are the implications for transmission? This panel will discuss the unique challenges of offshore wind for the transmission industry, including:

- How will the system deal with the introduction of large, “lumpy” renewable energy projects into their markets?
- What are the implications of a lack of coordinated transmission development to support these projects?
- How much transmission investment will be needed to interconnect and integrate offshore wind?
- What more can we do to use existing sites to bring in OSW?

Moderator:
Margaret M. Neves, J.D., Business Development Director, POWER ENGINEERS, INC.

Panelists:
Janice Fuller, President, New Jersey OceanGrid, ANBARIC
Joshua Gange, Renewable Energy Program Transmission Specialist, BUREAU OF OCEAN ENERGY MANAGEMENT (BOEM)
GT Hollett, Director, Generation Projects, DOMINION ENERGY
Jonathan E. Schrag, Deputy Administrator, RHODE ISLAND DIVISION OF PUBLIC UTILITIES AND CARRIERS
Kirsty Townsend, Head of Special Projects, US, ØRSTED

9:30-10:00  Networking Break

10:00-11:00  Panel Discussion: Energy Storage as a Transmission Asset

What is happening with storage on the grid level? How are utilities and ISOs/RTOs employing storage assets, and what is its potential to deal with issues in the emerging new era of energy? This panel will explore the following issues and more:
• How is ISO planning evolving to assess storage alongside more traditional assets?
• Where should you locate large scale storage systems on the grid – do you put them on the generation site or where the feeds come in? Or on the grid?
• How do the traits of energy markets translate into the best applications for storage deployments to address?
• What roles can storage play in markets that are facing the difficult questions around introducing more renewables and combining different kinds of loads?

Moderator:
Vandan Divatia, Director, Policy & Interconnections, EVERSOURCE ENERGY

Panelists:
Kiran Kumaraswamy, Vice President, Market Applications, FLUENCE
Tom Noelle, Director of Origination, ABLE GRID ENERGY SOLUTIONS

11:00-Noon  Panel Discussion: Asset Management Projects and their Value

Large, interstate wires projects have experienced significant challenges while recently taken a back seat to projects that supplement the capabilities of the current grid or are spurs to connect renewable energy projects have continued to proceed with addressing local and regional grid needs. This panel will explore the value of these projects, and:

• Why is investment being funneled to these projects?
• What benefits should customers expect to result from these investments?
• Could multiple smaller projects be more efficiently replaced by a single large greenfield project?

Moderator:
Greg Poulos, Executive Director, CONSUMER ADVOCATES OF PJM STATES (CAPS)

Panelists:
Alexander C. Stern, Manager, Transmission Strategy & Policy, PSE&G
Ed Tatum, Vice President, Transmission, AMP
Robert Taylor, Manager of Transmission Strategy, EXELON UTILITIES

Noon  Summit Adjourns