



EBC Energy Resources Program
The Challenges of Expanding Renewable Energy and Maintaining Grid Reliability

Tuesday, March 29, 2016

Brown Rudnick LLP
Boston, Massachusetts

AGENDA

- 7:45 a.m.** **Welcome: John Wadsworth**, Chair, EBC Energy Resources Committee
Partner, Brown Rudnick LLP
- Introduction: Michael Ernst**, Program Chair and Moderator
Executive Advisor, Power Advisory LLC
- 8:00 a.m.** **Meeting Renewable Energy Targets While Ensuring Grid Reliability**
- Panel Moderator: **Michael Ernst**, Executive Advisor, Power Advisory LLC
- Panelists:
- **Steve Rourke**, Vice President, Systems Planning, ISO New England
 - **Ronald T. Gerwatowski**, Advising on Energy Policy Matters
 - **Rebecca Tepper**, Chief, Energy and Telecommunications Division
Deputy Chief, Energy and Environment Bureau
Office of Attorney General Maura Healey
- 9:00 a.m.** **Providing Reliable Renewable Energy and Storage**
- Panel Moderator: **Ronald T. Gerwatowski**
- Panelists:
- **John Mosher**, Vice President, Engineering and Design
Solect Energy Development
 - **John J. Keene, Jr.**, Director, ISO Advocacy, SunEdison
 - **Chet Lyons**, Principal, Energy Strategies Group (ESG)
 - **Armond Cohen**, Executive Director, Clean Air Task Force
- 10:15 a.m.** **Networking Break**

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10:45 a.m. Firming Renewable Energy and Meeting Future Peak Energy Demand with Clean Energy

Panel Moderator: **Paul Afonso**, Counsel, Brown Rudnick LLP

Panelists:

- **Carolyn O'Connor**, Director, External Affairs and Communications HQ US Hydro-Quebec
- **Steve Leahy**, Vice President, Policy, Northeast Gas Association
- **Matthew Morrissey**, Executive Director, Offshore Wind Massachusetts
- **Paul J. Hibbard**, Vice President, Analysis Group

12:00 p.m. Closing Remarks – Michael Ernst

12:15 p.m. Adjourn

PROGRAM CHAIR

Michael Ernst, Executive Advisor

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Mr. Ernst has over 30 years of energy experience as an environmental attorney for state agencies, a law firm, an independent transmission company and now as senior consultant for Tetra Tech and Power Advisory LLC, an economic consulting firm where he supports renewable energy market analysis. As Director of Regulatory Affairs for the Tetra Tech Energy Program, Mr. Ernst supports siting and permitting for various proposed onshore and offshore wind farms and transmission lines and cables, including the Deepwater Wind Block Island, Rhode Island offshore wind farm, the Dominion Virginia offshore turbines, and other projects off the Atlantic Coast. Mr. Ernst helps lead policy analysis for the U.S. Department of Energy funded annual Offshore Wind Market Analysis and Supply Chain Studies and the 2014 DOE Wind Vision Report. He is an active member of the Offshore Wind Development Coalition and AWEA Offshore Wind Working Group since 2007. Mr. Ernst has a J.D. from Northeastern University School of Law in Boston and B.S. from Davidson College in Davidson, North Carolina.

SPEAKERS & MODERATORS

Paul Afonso, Counselor at Law

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Paul G. Afonso is the Co-Practice Leader of the Firm's EUE Practice Group and Boston Government Law & Strategies Groups. He also serves on the Advisory Board of Braemar Energy Ventures and in 2012 was appointed by then Boston Mayor Thomas M. Menino as Chairman of the Boston Water and Sewer Commission. With 25 years of energy, legislative and regulatory. Paul is noted for his experience in regulatory policies and legislation related to electricity, gas, water, cable television, telecommunications, pipeline engineering and safety. Paul has served as a trusted advisor and counselor to senior energy and technology executives, venture capital groups and investors, project developers and city, state and federal governmental entities. Paul is the former General Counsel and Chairman of the Massachusetts Department of Public Utilities (formerly the Department of Telecommunications and Energy). He also served as Chairman of the Energy Facilities Siting Board, the agency charged with reviewing major generation, electric transmission, gas storage facilities and gas pipelines.

Armond Cohen, Executive Director
Clean Air Task Force
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Armond Cohen is Founder and Executive Director of the Clean Air Task Force, an organization he founded in 1996 and dedicated to reducing carbon emissions from the global energy system through research, public education and collaboration with the private sector to develop and deploy low emissions technology. With offices in the US and China, CATF advances its objectives globally through both policy change and collaboration with the private sector. Prior to his work with CATF, Armond founded and led the Conservation Law Foundation's Energy Project from 1983 through 1996, where he lead efforts to expand demand side management investment and scale up renewable energy in the region. Armond has published widely on climate, energy systems, and air pollution; he speaks and testifies frequently on these topics. He is Vice Chair of the Electric Power Research Institute's Advisory Council, a founding board member of the Center for Sustainable Shale Development, a founding member of the Nuclear Innovation Alliance, and a member of the World Economic Forum (Davos) Global Agenda Council on Decarbonizing Energy. He is an honors graduate of Brown University and Harvard Law School.

Ronald T. Gerwatowski, Advising on Energy Policy Matters
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Ron Gerwatowski has 29 years of experience in the energy industry, with expertise ranging from rate regulation, power markets, energy procurement, renewable energy, and energy policy, among a wide range of other subjects. He was formerly the Senior Vice President for Regulation and Pricing for National Grid, where he had responsibility for rates and regulation for the regulated subsidiaries in the United States, including those in New England and New York. After retiring from the Company in 2014, he was appointed Assistant Secretary for Energy in the Baker-Polito Administration, where he served as a senior policy advisor to Secretary Matthew Beaton, playing a significant role in the development of the Administration's energy policy during its first year. After completing a year of public service, he has since returned to the private sector as an energy and regulatory policy consultant.

Paul J. Hibbard, Vice President
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Mr. Hibbard has both public and private sector experience in energy and environmental technologies, economics, market structures, and policy. He has provided technical and policy analysis as well as strategic advice to clients in such areas as power system planning, electricity market design, natural gas commodity and transportation contracting, energy infrastructure needs, energy facility siting, the design and performance of market-based emission control policies, utility structure and procurement practices, and the administration of renewable development programs. Mr. Hibbard's work has addressed the implications of new renewable and emission portfolio standards for retail suppliers; the impacts of transmission congestion management on power purchase contract pricing; the evolution of electricity market structures; utility ratemaking practices; and the transfer of U.S. federal and state emission control programs to other countries. He served as chairman of the Massachusetts Department of Public Utilities during a period of major change in utility ratemaking practices and state energy policy. Mr. Hibbard also has written on a wide variety of energy and environmental topics for such publications as Public Utilities Fortnightly and The Electricity Journal, and has authored numerous white papers and reports for foundations, commissions, and industry organizations.

John J. Keene, Jr., Director, ISO Advocacy
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John J. Keene Jr. is Director of ISO Advocacy for SunEdison. In this role, John is SunEdison's lead advocate at ISO New England and the New York ISO. He is responsible for representing SunEdison's operational and development interests through rulemakings and stakeholder processes relating to issues such as Capacity Market, Energy Market, gas/electric coordination rules, curtailment issues and other matters.

Prior to joining First Wind, John was Director of the Division of Regional and Federal Affairs ("DRFA") at the Massachusetts Department of Public Utilities. As Director of DRFA, John was the primary legal and policy advisor to the DPU's Commission on regional and federal matters. John oversaw the team of legal and technical professionals representing the DPU and supporting the DPU Commissioners in a variety of regional and federal forums including New England Governors' Conference Power Planning Committee, NESCOE, and NECPUC, where John served as the NECPUC Electricity Staff Chair. John was appointed by Governor Patrick as one of Massachusetts' two representatives to the Eastern Interconnection States Planning Council (EISPC), a federally funded transmission planning initiative.

John joined the DPU in 2005 as a hearing officer in the Legal Division overseeing regulatory proceedings involving the DPU's jurisdictional utilities. Prior to joining the DPU, John spent more than 10 years in the telecommunications industry. John represented telecommunications carriers as both in-house and outside counsel on a variety of transactional, siting and regulatory matters. John has appeared before local and regional permitting boards in more than 100 communities in Massachusetts.

John earned his J.D. from Suffolk University Law School, and holds a B.A. in Philosophy and Political Science from Boston College. John grew up in Burlington, MA and currently lives in the Boston area with his wife and two children.

Stephen J. Leahy, Vice President, Policy
Northeast Gas Association
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Steve Leahy is Vice President, Policy at the Northeast Gas Association (NGA). NGA is a regional trade association that represents the natural gas industry of New York, New Jersey, Pennsylvania and the six New England states. Its members include the gas distribution companies of the multi-state region, interstate transmission companies, LNG transporters, and over 300 associate member companies.

Prior to joining NGA, Steve was Director of Energy and Environment Programs for the New England Governors' Conference in Boston. He also has served as a consultant for the Northeast Advanced Vehicle Consortium, and as a contractor on projects funded by the U.S. EPA and U.S. Department of Energy. He is a member of the Board of Directors of the New England-Canada Business Council.

Steve has a B.A. from Harvard College and an M.A. in international relations from Tufts University (Fletcher School of Law and Diplomacy).

Chet Lyons, Principal
Energy Strategies Group (ESG)
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Chet has over 25 years of experience in the development and commercialization of advanced energy technologies, including over 40 megawatts of grid-scale energy storage projects in Massachusetts, New

York State and Pennsylvania. His understanding of the energy storage industry spans technical, market, regulatory and project finance knowledge domains.

In 2012 Chet founded Energy Strategies Group (ESG), a firm that provides strategic consulting to the global energy storage industry and develops grid-scale storage projects. ESG specializes in innovative strategies and business models that address the complexities and challenges of commercializing energy storage technologies. In the last three years, ESG's clients have included: Google, Recurrent Energy / Canadian Solar, Vionx Energy, US Trade & Development Agency, Boston Consulting Group, McKinsey, Goldman Sachs, Robert Bosch, Primus Power, ViZn Energy Systems, Landis & Gyr / Toshiba, Battery Innovation Center of Indiana, Imergy, Gerson Lehrman Group, Greentech Media, UniEnergy Technologies, Gaelectric, CLSA (a subsidiary of CITIC Securities), and institutional fund management companies in 14 countries.

Chet's research, writing and speaking engagements related to energy storage have made him a respected analyst and influencer in the storage industry in the US, Europe and Asia. He is the author of a 310-page research report: "Grid Scale Energy Storage Opportunities in North America: Applications, Technologies, Suppliers and Business Strategies," published by Greentech Media. His recent white paper: "Guide to Procurement of Flexible Peaking Capacity: Energy Storage or Combustion Turbines?" was published by Energy Strategies Group.

Chet received his undergraduate degree in Environmental Studies from University of California at Berkeley, and an MBA in Finance from Boston University Questrom School of Business.

Matthew A. Morrissey, Executive Director

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Matthew A. Morrissey is a longtime economic development leader and offshore wind advocate in Massachusetts. He specializes in the intersection of the public policy, economic development and environmental benefits that offshore wind represents. Morrissey is the founder and Managing Director of Offshore Wind: Massachusetts ("OSWMA"). OSWMA is a trade organization designed to support the development of the offshore wind market in Massachusetts.

Prior to his work in offshore wind, Morrissey worked in public higher education administration, and was the co-founder of software company Mogall, Inc., one of the early pioneers of the social networking phenomenon.

For over 7 years, Morrissey served as the Executive Director of the New Bedford Economic Development Council. He then founded the New Bedford Wind Energy Center and as Managing Director, expanded the City's efforts to build regional capacity in support of the emerging offshore wind industry.

John Mosher, Vice President, Engineering and Design

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John has over 20 years of product design, development and commercialization experience. He has held senior management roles coordinating domestic and Asia based r&d, commercialization, qc, marketing, and labor compliance. John has an extensive background as a volunteer and is a strong advocate for sustainability. Previously he led sustainability efforts while working with national brands and retailers. His design background includes clients such as Xerox, Bausch and Lomb, Reebok, Target, Kodak and GE. During that time he built and managed teams here and abroad. John joined Solect in August 2015

and has led their storage initiative as well as Design and Engineering. He received his bachelor's degree with Honors in Industrial Design from the Rochester Institute of Technology (1992) and his PMI project management certification from Oak Associates at Bentley University.

Carolyn O'Connor, Director, External Affairs and Communications HQ US

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Carolyn O'Connor was named Director of External Affairs and Communications for HQUS in April 2012. HQUS is the US subsidiary of Hydro Quebec responsible for establishing business development opportunities in US energy markets and for providing information about HQ resources and initiatives to government and industry stakeholders. Carolyn leads HQUS' efforts to provide information about the performance of Hydro Quebec in a variety of forums. She is also responsible for developing HQUS' state and regional policy positions in the area of clean energy and transmission.

Prior to joining HQUS, Carolyn directed the External Affairs Department of ISO New England for over 10 years. In this role, she represented the ISO before a wide array of key stakeholders and constituencies, including before New England's federal congressional delegation, and managed the development and distribution of information about the performance and operation of the wholesale markets and bulk power system for all New England state government officials. She was also responsible for the development of state and federal policy positions and assisted with numerous ISO initiatives including the design and establishment of the first-ever Consumer Liaison Group, formed in 2009 to provide an informational forum for consumer interests to participate in wholesale electric markets.

Before joining ISO New England, Carolyn worked in several management positions with the New England Council, including as Vice President of Policy Development managing the organization's Capitol Hill office.

Stephen J. Rourke, Vice President, System Planning

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Stephen J. Rourke is Vice President, System Planning for ISO New England, having previously served as the company's Director, Reliability & Operations Services. A former manager of the REMVEC control center in Westborough, MA, and former manager of marketing operations for Northeast Utilities/Select Energy Inc., Mr. Rourke has 30 years of experience in operations and planning of New England's bulk power system. Mr. Rourke is responsible for overseeing the Regional System Plan, analyzing new infrastructure projects, implementing the generator interconnection process, developing findings for allocating transmission costs, and supporting New England's capacity markets. He is a Senior Member of the Institute of Electrical and Electronic Engineers.

Rebecca Tepper

Chief, Energy and Telecommunications Division

Deputy Chief, Energy and Environment Bureau

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Rebecca is the Deputy Bureau Chief of the Energy and Environment Bureau and Chief of the Energy and Telecommunications Division of the Massachusetts Attorney General's Office. Rebecca serves as the Attorney General's chief advisor on energy policy and executes the Attorney General's statutory function of ratepayer advocate before state and federal regulators and courts.

Prior to joining the Attorney General's Office, Rebecca was the General Counsel to the Massachusetts Department of Public Utilities. As General Counsel, Rebecca served as the chief legal advisor to the Commission and oversaw all Department adjudicatory and rulemaking proceedings.

Prior to her role as General Counsel, Rebecca served as the Director of the Massachusetts Energy Facilities Siting Board where she chaired the Siting Commission's siting reform, interagency cooperation and legislative initiative subcommittees. Rebecca also served as a Governor's representative to the Eastern Interconnection States' Planning Council.

Before joining the State in 2009, Rebecca had 15 years of experience in the private sector, as a partner at the law firm of Rubin and Rudman, LLP. At Rubin and Rudman, Rebecca represented developers throughout the Northeast in siting, permitting, financing and contracting of renewable, distributed generation and conventional energy facilities. She also advocated on behalf of various stakeholders before state public utility commissions and the FERC in proceedings involving rates, energy efficiency, demand response and the ISO-NE markets and rules.

Rebecca is a *magna cum laude* graduate of Boston University Law School and received her bachelor of arts from the University of Wisconsin/Madison.

Upcoming EBC Programs

- April 5: Site Remediation Committee Meeting with MassDEP Brownfields Director
- April 8: Construction & Demolition Subcommittee Meeting
- April 12: Dam Management Program – Innovative Technologies in Engineering
- April 14: EBC/SWANA/NRRA/NWRA Third Annual Solid Waste Management Conference
- April 15: CT Chapter Update from U.S. EPA Regional Administrator and CT DEEP Commissioner
- April 21: Young Environmental Professionals Program – Interest Based Negotiation
- April 28: Site Remediation Program – Risk Communication
- April 29: Energy Resources Program – Energy Efficiency and Zero Net Energy Buildings



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