



*New England Conference of Public Utilities Commissioners*  
**necpuc**

# 70<sup>th</sup> Annual Symposium



June 4-7, 2017 ♦ Omni Mt. Washington Resort ♦ Bretton Woods, New Hampshire



**NECPUC 70<sup>th</sup> Annual Symposium**  
**June 4-7, 2017**

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# **PROGRAM FOR 70<sup>TH</sup> ANNUAL NECPUC SYMPOSIUM**

## **Sunday, June 4, 2017**

- 4:00 p.m. ISO-NE Budget Discussion *Jefferson Room*
- ISO-NE will present administrative and capital budget information to the state public utility commissions, public advocates, Attorneys General and any other members of the public who wish to attend.  
*Robert Ludlow*, VP, Chief Financial and Compliance Officer, ISO-NE
- 6:00 p.m. Pre-dinner Reception *Conservatory*  
Sponsored by Pierce Atwood LLP and Brown Rudnick LLP
- 7:00 p.m. Dinner *South Veranda\**
- 8:30 p.m. Dessert Reception *Conservatory*  
Sponsored by the Nuclear Energy Institute and the National Association of Water Companies

## **Monday, June 5, 2017**

- 7:30 a.m. Continental Breakfast Buffet begins *Dining Room*
- 7:30 a.m. Market Monitor Report *Reagan Room*  
(Closed Session, breakfast provided)
- In accordance with the ISO-NE tariff, the Internal Market Monitor must “arrange a non-public meeting open to appropriate state or federal government agencies, including the Commission and state regulatory bodies, attorneys general, and others with jurisdiction over the competitive operation of electric power markets, subject to the confidentiality protections of the ISO New England Information Policy, to the greatest extent permitted by law.” In accordance with the ISO-NE tariff, this is non-public session.  
*Jeff McDonald*, Internal Market Monitor, ISO-NE
- 8:45 a.m. Plenary Session *Grand Ballroom*
- Welcome by *Hon. Martin Honigberg*, NECPUC President and Chair of the New Hampshire Public Utilities Commission
- Video Address by *Hon. Jeanne Shaheen*, United States Senator, State of New Hampshire

\*In case of inclement weather, dinner will be held in the Grand Ballroom

Keynote Address by *Hon. Cheryl LaFleur*, Acting Chairman, Federal Energy Regulatory Commission

Fireside Chat: Postcards from the Future – Stories from the Hawaiian Grid  
*Hon. Martin Honigberg*, Chairman, New Hampshire Public Utilities Commission  
*Hon. Lorraine Akiba*, Commissioner, Hawaii Public Utilities Commission

10:00 a.m. Break

10:15 a.m. Plenary Session *Grand Ballroom*  
Will New England Find Harmony? State Laws & Regional Electric Markets

Can New England's wholesale electricity markets and state laws be harmonized? The challenges to doing so are many, and they are fundamental. They include: addressing complex jurisdictional questions, ensuring that the consumers of each state bear only the costs of their own state's laws, and achieving state law compliance at the lowest possible cost to consumers. Can the region resolve those questions in the short- and long-term in a way that preserves the most-often cited goals of competitive wholesale markets: placing risks of business decisions on investors rather than consumers, as well as meeting consumers' needs and preferences with lowest costs, while not diminishing environmental quality, compromising energy efficiency, or jeopardizing reliability?

Moderator: *Hon. Robert Scott*, Commissioner, New Hampshire Public Utilities Commission

Panelists:

*William Fowler*, President and Co-Founder, Sigma Consultants and Chair of New England Power Pool's Integrating Markets and Public Policy Process

*Hon. Angela O'Connor*, Chair, Massachusetts Department of Public Utilities

*Robert Stoddard*, Senior Consultant, Charles River Associates, on behalf of Conservation Law Foundation, NextEra Energy Resources and Brookfield Renewable

*Hon. Mark Vannoy*, Chair, Maine Public Utilities Commission

*Gordon Van Welie*, President and Chief Executive Officer, ISO-NE

Noon Luncheon *The Dining Room*

Introduction by *Hon. Martin Honigberg*, NECPUC President and Chair of the New Hampshire Public Utilities Commission

Keynote Address by *Hon. Christopher Sununu*, Governor, State of New Hampshire

1:30 p.m. Concurrent Sessions

A. Natural Gas: *Grand Ballroom*  
Models for Local Distribution Company Expansion

Over the past decade economic, environmental and political concerns have resulted in an increase in demand for natural gas. Existing natural gas consumers are considering enhancing their services, while new customers are looking to take advantage of the benefits natural gas provides in terms of economics, efficiency and reliability. While this is taking place in the background, many New England utilities are faced with the cost of expansion and constrained interstate pipeline capacity. The panel will discuss the tools available for serving current and new customers. The panelists will consider various issues, including regulatory models for expansion, alternatives to increased pipeline capacity, rate-making treatment of associated costs, economic development, environmental concerns and consumer protection.

Moderator: *Victoria Hackett*, Director of Adjudications, Connecticut Public Utilities Regulatory Authority

Panelists:

*Abigail Anthony*, Director, Grid Modernization Initiative & Director, Rhode Island Office, Acadia Center

*Todd Black*, Senior Vice President, External Affairs & Customer Relations, Unitil

*Louis James*, Director, Business Development, UGI Energy Services

*Thomas Kiley*, President and CEO, Northeast Gas Association

*Michael Licata*, Director, Government and Community Relations, Liberty Utilities

*Jim Roche*, President, New Hampshire Business & Industry Association

B. Water Panel: *Presidential Ballroom*  
Water at the Nexus between Economic Regulation and Health

The City of Flint, Michigan made national news in 2015 when lead was found in the public water supply following a change in water source. Residents continue to use bottled or filtered water there, while criminal charges have been filed against some of those involved. Meanwhile, closer to home, perfluorooctanoic acid (PFOA) associated with a manufacturing facility was found in water supplies in Merrimack and Litchfield, New Hampshire. Discovery of widespread contamination or an emerging contaminant can cause a public health crisis – and require immediate investment for public water systems. This panel will discuss several recent case studies – and what regulators need to know about the confluence of environmental and economic regulation.

Moderator: *Hon. Jack Betkoski*, Vice Chairman, Connecticut Public Utilities Regulatory Authority

Panelists:

*Janice Beecher*, Director, Institute of Public Utilities Policy Research & Education, Michigan State University

*Brandon Kernen*, Hydrology and Water Conservation and Water Use Program Manager, New Hampshire Department of Environmental Services

*Donald Ware*, Chief Operating Officer, Pennichuck Corporation

3:00 p.m. Break

3:15 p.m. Concurrent Sessions

A. Nuclear Waste Redux: Could this be a new movie? *Grand Ballroom*

Pursuant to the Nuclear Waste Policy Act, the United States Department of Energy entered into contracts with the owners of nuclear generating facilities that obligated the federal government to take the spent nuclear fuel from nuclear plants across the country and send it to a disposal facility beginning no later than January 1998. Money was collected from ratepayers to pay for this disposal and thus far about \$40 billion is in the Nuclear Waste Fund. DOE has failed to meet its obligation, so the waste sits in the states while the federal government holds ratepayers' money. Meanwhile, plants around the country have sued the DOE for breach of contract and to collect costs related to the storage of spent nuclear fuel on site. Those costs come out of the Federal Judgment Fund which is funded by the taxpayers from every state. First the ratepayers paid for a service they did not receive, and now the taxpayers are paying again because of this lack of service. Will this hemorrhage of money ever end? Is Yucca Mountain really and truly "dead"? Is interim storage at a private site possible? Come hear the latest on what is being proposed in Congress and by private initiatives to move the nation's spent nuclear fuel.

Moderator: *Hon. Sarah Hofmann*, Member, Vermont Public Service Board

Panelists:

*Robert Capstick*, Director of Government, Public & Regulatory Affairs, Yankee Atomic Electric Company, Maine Yankee, and Connecticut Yankee

*Ed Mayer*, Program Director, Holtec Technology Campus

*Rod McCullum*, Senior Director, Fuel and Decommissioning Programs, Nuclear Energy Institute (NEI)

*Katrina McMurrian*, Executive Director, Nuclear Waste Strategy Coalition

*Hon. Anthony J. O'Donnell*, Commissioner, Maryland Public Service Commission

B. Water Planning Roundtable

*Washington Boardroom*

Come participate in a roundtable discussion regarding the development and implementation of a statewide water plan for the State of Connecticut, which will be considered by the Connecticut State Legislature in Spring 2018.

Roundtable Leaders:

*Hon. Jack Betkoski*, Vice Chairman, Connecticut Public Utilities Regulatory Authority

*Michael Jennings*, Senior Program Manager, New England Interstate Water Pollution Control Commission

*Kirk Westphal*, Associate, CDM Smith

C. Ethics CLE for lawyers

*Presidential Ballroom*

*Michael Sheehan*, Senior Counsel, Liberty Utilities

*Maureen Smith*, Shareholder, Orr & Reno

- 6:15 p.m. Pre-dinner Reception *Conservatory*  
Sponsored by the Retail Energy Supply Association, Itron, and Robinson & Cole
- 7:15 p.m. Dinner *Dining Room*
- 8:30 p.m. Dessert Reception *Conservatory*  
Sponsored by the Northeast Gas Association

**Tuesday, June 6, 2017**

- 7:30 a.m. Continental Breakfast Buffet begins *Dining Room*
- 7:30 a.m. Telecom Breakout *Sun Dining Room*

Come discuss various telecommunications issues with Commissioners, state staff, and telecommunications professionals.

- 8:45 a.m. Plenary Panel *Grand Ballroom*  
Regulation in the Age of Competition and Innovation  
The telecommunications and electricity industries have advanced substantially since the days of vertically integrated utilities. Innovation and technology have led to an evolution in telecommunications with a variety of new products and services, such as cell phones and apps, competitive local service providers, and broadband and the Internet, reducing reliance on incumbent telecommunications providers while maintaining safety net service. Meanwhile, in a post-restructured electric industry, as reliance on distributed energy resources and energy efficiency grows, a chorus of commentators question what the future will hold, and what the role of the regulated utility – and the regulator – should be. Developments in both industries raise a multitude of questions: Are there lessons that can be learned from one industry and applied in the other? What can markets best accomplish?



What obligations, if any, must remain under the auspices of regulators? Can we provide incentives for innovation and investment and assure fairness across customers and customer classes? How do we judge success? This august panel will address these questions and more.

Moderator: *Hon. Kathryn Bailey*, Commissioner, New Hampshire Public Utilities Commission

Panelists:

*Kathleen Abernathy*, Board Member, ISO New England and former Executive Vice President, Frontier Communications

*Hon. Lorraine Akiba*, Commissioner, Hawaii Public Utilities Commission

*Janet Besser*, Executive Vice President, Northeast Clean Energy Council

*Louise McCarren*, Independent Consultant

*Barbara Tyrann*, Executive Director, Government & External Relations, Electric Power Research Institute

10:15 a.m. Break

10:30 a.m. Batteries Not Included: *Grand Ballroom*  
The Risk and Reward of Storage

Is storage the silver bullet of the electric industry? Increased reliance on intermittent resources with rapidly increasing distributed energy resources results in impacts across the electric system, from wholesale to distribution system operations. Many states are being asked to make big bets on batteries, but who will benefit from this rapidly evolving technology? What are the challenges for making policy decisions around technology that is moving and changing rapidly? As tests and studies pour in – from large-scale projects developed in the wake of the Aliso Canyon natural gas leak in California to distribution-scale projects here in New England – the question is whether storage is ready for “prime time.”

This panel will consider:

- What “peak” will storage actually chase?
- How will various technologies and programs be improved and/or hurt by storage?
- Will the market invest in storage without state support?
- How do state policy makers maximize benefits from investment in storage while avoiding detrimental impacts and diminishing returns?
- What policies can support the best outcomes for all customers?

Moderator: *Hon. Ned Bartlett*, Undersecretary of Energy and Environmental Affairs, Massachusetts Executive Office of Energy and Environmental Affairs

Panelists:

*Jason Allen*, VP of Operations – Power, AltaGas Services U.S.

*Richard Fioravanti*, Principal, Engineering Management Consulting Practice Energy and Utilities, Exponent

*Jesse Jenkins*, PhD Candidate, Massachusetts Institute of Technology  
*Tom Kaslow*, Director, Market Design & Policy, FirstLight Power Resources  
*Christopher Parent*, Director of Market Development, ISO New England

12:15 p.m. Luncheon *Dining Room*

Invitation to 2018 NECPUC Symposium, *Hon. Mark Vannoy*, Chair, Maine Public Utilities Commission  
Presentation of George Dunn Award to Staff by *Hon. Martin Honigberg*, NECPUC President and Chair of the New Hampshire Public Utilities Commission  
*Hon. Jack Betkoski*, First Vice President, National Association of Regulatory Utility Commissioners and Vice Chairman, Connecticut Public Utilities Regulatory Authority  
*Tom Kaslow*, Chair, New England Power Pool and Director, Market Design & Policy, FirstLight Power Resources

1:30 p.m. Plenary Session: From Ukraine to New England *Ballroom A South*

In December 2015, the utility world was rocked by news of a widespread electricity outage in Ukraine. The result of illegal entry into a utility's computer and SCADA systems, the outage caused 225,000 customers to lose power for three hours, and the system to be switched to manual mode. According to NERC, the Ukrainian attack was the first cyber incident to result in power outages. Our speakers will discuss international cybersecurity concerns, the lessons to be learned and mitigation strategies that should be considered for New England.

Speakers:

*Hon. Robert Scott*, Commissioner, New Hampshire Public Utilities Commission  
*Arthur House*, Chief Cyber Security Risk Officer, State of Connecticut  
*Joseph H. McClelland*, Director, Office of Energy Infrastructure Security, Federal Energy Regulatory Commission

2:15 p.m. Break

2:30 p.m. Concurrent Sessions

A. International Session: Lessons for New England *Ballroom A South*

What can we learn from other parts of the world? What global issues warrant special attention from a New England perspective? From China to Peru, and from Germany to Mexico, find out what other countries are focused on, including their successes and failures, and bring that knowledge back to your state. This panel of international experts is not to be missed.

Moderator: *Margaret Curran*, Chairperson, Rhode Island Public Utilities Commission

Panelists:

*Richard Cowart*, Principal and European Programs Director, Regulatory Assistance Project

*Natividad Martel*, Vice President – Senior Analyst, Moody’s Investors Service

*Milda Morkyte*, Manager of International Programs, National Association of Regulatory Utility Commissioners

*Paul Roberti*, Executive Director, Advisory Services – Strategy, Ernst & Young

*Frederick Weston*, Principal and China Programs Director, Regulatory Assistance Project

B. There’s an App for That!

*Ballroom B North*

As a Symposium attendee, you have already heard about regulation in the age of technological innovation and the risk and rewards of storage innovations in the electricity industry. Now, we will hear about specific technological innovations across industries, with a focus on the intersection with telecommunications. The world is seemingly changing faster than the speed of light, with advances in telemedicine, autonomous vehicles, public safety and risk, and artificial intelligence resulting in the potential for massive market shifts. This panel will offer practical insight into the potential of this brave new future.

Moderator: *Hon. Karen Charles Peterson*, Commissioner of the Massachusetts Department of Telecommunications and Cable

Panelists:

*Derek Doan*, Senior Manager for the Northeast Region for Public Sector and Education Sales, T-Mobile

*Colin Gounden*, Chief Executive Officer, Via Science

*Kyle Mallinger*, Director of Marketing, Zco Corporation

*John Weaver*, Attorney, McLane Middleton

5:15 p.m. Pre-dinner Reception Sponsored by ISO-NE *Conservatory*

6:30 p.m. Non-public dinner for state officials and NESCOE *Sun Dining Room*

**Wednesday, June 7, 2017**

Non-public session for state officials and their staff, NESCOE and invited guests.

## SPEAKER APPRECIATION



The NECPUC Symposium would not be successful without the dedication and efforts of speakers and panelists who have joined us from around the world. In recognition of these efforts, NECPUC has made a donation on behalf of each speaker to *The Neighbor Helping Neighbor Fund*, which provides assistance to customers who are suffering from financial hardship or emergency but who do not qualify from other forms of energy assistance, such as Low Income Home Energy Assistance (LIHEAP).

## GENERAL INFORMATION

**Information:** If you have any questions about the Symposium, call Rachel Goldwasser, NECPUC Executive Director, at 603-748-9851.

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**Suggested Attire:** Business Casual

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**Electronic Devices:** In consideration of the speakers and your colleagues, please turn off all cellular phone and other communication devices while in any session.

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**CLEs:** *Please sign up for CLE Credit at the registration desk and request a copy of the uniform certificate there.* CLE credit has been approved in Rhode Island (10.5 hours general, 1 hour ethics) and Maine and Vermont (both for 9 hours general, 1 hour ethics). NH is now a self-reporting CLE state. Attorneys should only claim credit commensurate with the extent of their participation in the Symposium.

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**Taping/Video Policy:** Unless you receive prior approval from NECPUC, only credentialed members of the press are allowed to tape or video NECPUC sessions. If you wish to tape or record any portion of the NECPUC meeting, please contact Rachel Goldwasser at [rgoldwasser@necpuc.org](mailto:rgoldwasser@necpuc.org) or 603-748-9851.



Join NECPUC in Maine!

May 20-23, 2018

Cliff House

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## **NECPUC Officers**

**Martin Honigberg** – President  
New Hampshire Public Utilities Commission

**Mark Vannoy** – Vice President  
Maine Public Utilities Commission

**Michael A. Caron** – Treasurer  
Connecticut Public Utilities Regulatory Authority

**June Tierney** – Clerk  
Vermont Department of Public Service

**Rachel Goldwasser** – Executive Director and Deputy Clerk  
New England Conference of Public Utilities Commissioners

## **NECPUC Members**

Connecticut Public Utilities Regulatory Authority  
Katie Scharf Dykes, Chair  
John W. Betkoski, Vice Chair  
Michael A. Caron, Commissioner  
[www.ct.gov/PURA](http://www.ct.gov/PURA)

Maine Public Utilities Commission  
Mark Vannoy, Chair  
Carlisle J.T. McLean, Commissioner  
R. Bruce Williamson, Commissioner  
[www.maine.gov/mpuc](http://www.maine.gov/mpuc)

Massachusetts Department of Public Utilities  
Angela M. O'Connor, Chair  
Robert Hayden, Commissioner  
Jolette A. Westbrook, Commissioner  
[www.mass.gov/dpu](http://www.mass.gov/dpu)

Massachusetts Department of  
Telecommunications and Cable  
Karen Charles Peterson, Commissioner  
[www.mass.gov/dtc](http://www.mass.gov/dtc)

New Hampshire Public Utilities Commission  
Martin Honigberg, Chair  
Kathryn M. Bailey, Commissioner  
Robert R. Scott, Commissioner  
[www.puc.nh.gov](http://www.puc.nh.gov)

Rhode Island Public Utilities Commission  
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Marion Gold, Commissioner  
[www.ripuc.org](http://www.ripuc.org)

Vermont Public Service Board  
James Volz, Chair  
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Sarah D. Hofmann, Member  
[www.psb.vermont.gov](http://www.psb.vermont.gov)

Vermont Department of Public Service  
June Tierney, Commissioner  
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Sponsorship makes the conference even more enjoyable for all who attend. Sponsors are independently and directly responsible for their activity. To sponsor an event, a sponsoring entity must not be regulated by or an affiliate of an entity subject to the regulatory jurisdiction of a NECPUC member.

## **SPEAKER BIOGRAPHIES**

*Kathleen Quinn Abernathy*, Board Member, ISO New England and former Executive Vice President, Frontier Communications – Kathleen Abernathy recently joined the law firm of Wilkinson, Barker, Knauer, LLP as Special Counsel following her retirement from Frontier Communications. She first joined Frontier in 2006 as a member of the Board of Directors following her term as a Commissioner at the Federal Communications Commission (FCC). In 2010, she accepted the position of Chief Legal Officer and Executive Vice President, Regulatory and Governmental Affairs. Over the next seven years she was on the leadership team that oversaw a number of strategic acquisitions that eventually grew Frontier to a Fortune 250 company. At retirement she was Executive Vice President, External Affairs. She is also a member of the Board of Directors of ISO New England, a regional energy transmission organization authorized by the Federal Energy Regulatory Commission (FERC) and has served in that capacity since 2012. Prior to her term as an FCC Commissioner, Abernathy worked for a number of different telecommunications companies and law firms. She has received numerous awards in recognition of her professional accomplishments and has taught as an adjunct professor at Georgetown University Law Center and Catholic University's Columbus School of Law.

*Hon. Lorraine H. Akiba*, Commissioner, Hawaii Public Utilities Commission – Lorraine H. Akiba was appointed to the Hawaii Public Utilities Commission in January 2012 for a term to expire June 30, 2018. She was previously a law partner at McCorriston Miller Mukai MacKinnon LLP and Cades Schutte Flemming & Wright LLP, where she headed each firm's Environmental Practice Group. She previously served as Director of the State of Hawaii Department of Labor and Industrial Relations and as Chair of the State of Hawaii Environmental Council. Commissioner Akiba is a member of the Advisory Council to the Board of Directors of the Electric Power Research Institute. She also is a member of the U.S. DOE and Lawrence Berkeley National Laboratory Future Electric Utility Regulation Advisory Group. She also serves on the National Association of Regulatory Utility Commissioners Board of Directors and its Energy Resources and Environment Committee. She also is a member of the State and Local Energy Efficiency Action Network (SEE Action) Financial Solutions Working Group.

*Jason Allen*, VP of Operations – Power, AltaGas Services U.S. Inc. – Jason Allen is a senior executive with over 25 years' experience overseeing power generation fleets including natural gas, hydro, coal, wind, solar, and battery storage assets. Allen joined AltaGas in 2016 and currently manages their North American power generation fleet. Prior to joining AltaGas, Allen worked for Duke Energy Corporation serving as Vice President of Operations – Carolinas West, Senior Vice President of Environmental Health and Safety, and Vice President of Renewable Operations and Technical Services. Allen earned a Bachelor of Science degree in Electrical Engineering from the University of Cincinnati and a master's degree from Northwestern University's Kellogg School of Management. On a personal note, Allen lives in the Dallas area with his wife and they have three children.

*Abigail Anthony*, Director, Grid Modernization Initiative & Director, Rhode Island Office, Acadia Center – Abigail Anthony leads Acadia Center's Grid Modernization and Utility Reform initiative, focusing on changing regulatory and economic incentives in order to achieve a sustainable and consumer-friendly energy system. Anthony also has a leading role in advancing energy efficiency procurement policies in her home state of Rhode Island through her appointment to the state's Energy Efficiency and Resource Management Council. Anthony received her PhD in Environmental and Natural Resource Economics from the University of Rhode Island and her MA and BA in economics from the University of Montana.

*Hon. Kathryn Bailey*, Commissioner, New Hampshire Public Utilities Commission – Kate Bailey was appointed by Governor Maggie Hassan to serve a six-year term on the New Hampshire Public Utilities Commission in July 2015. She also serves on New Hampshire's Site Evaluation Committee and Enhanced 911 Commission, as well as on the NARUC Committee on Electricity. Commissioner Bailey joined the New Hampshire commission staff in 1989, and she went on to hold various positions, including



Director of Telecommunications and Chief Engineer. Having joined the Commission shortly after the breakup of AT&T, Commissioner Bailey guided the regulatory transition in New Hampshire from rate-of-return monopoly telephone utilities to the predominantly deregulated competitive environment. Prior to her time at the New Hampshire PUC, Commissioner Bailey was commissioned in the Air Force where she served as a communications officer. After an honorable discharge from active duty, she was hired as a contractor to the federal government and worked on a microwave communications project throughout central Europe. Commissioner Bailey holds a Bachelor of Science degree from Union College in electrical engineering and she is a licensed professional engineer. Commissioner Bailey's son is a recent graduate of the University of New Hampshire, and her daughter is a student there. She lives with her husband Rick and their golden retriever in Bow, New Hampshire.

*Hon. Ned Bartlett*, Undersecretary of Energy and Environmental Affairs, Massachusetts Executive Office of Energy and Environmental Affairs – Ned Bartlett previously served as a Partner at Bowditch & Dewey, LLP where he maintained a diverse environmental, energy, and transportation practice. Prior to private practice, Undersecretary Bartlett served as an attorney in a number of environmental and state agencies, and as Special Assistant Attorney General for the Office of the Attorney General of Massachusetts. Undersecretary Bartlett brings a wealth of private and public sector experience to the Executive Office of Energy and Environmental Affairs.

*Janice Beecher*, Director, Institute of Public Utilities Policy Research & Education, Michigan State University – Janice Beecher has served as Director of the Institute of Public Utilities at Michigan State University since 2002 and now brings more than thirty years of applied research experience to the position. Her areas of interest include regulatory institutions, governance, and pricing and she specializes in the water sector. She is a frequent author, lecturer, and participant in professional forums and Editor of *Utilities Policy*. She recently coauthored the book, *Risk Principles for Public Utility Regulators* (MSU Press). Beecher is presently serving on the U.S. EPA's Environmental Finance Advisory Board and recently completed service on Michigan's 21st Century Infrastructure Commission. She previously held positions at The Ohio State and Indiana Universities and the Illinois Commerce Commission. She has a Ph.D. in Political Science from Northwestern University and faculty appointments in MSU's College of Social Science, where she has taught graduate courses in public policy and regulation.

*Janet Gail Besser*, Executive Vice President, Northeast Clean Energy Council – As Executive Vice President, Janet Gail Besser leads Northeast Clean Energy Council's (NECEC) policy and advocacy efforts, and oversees membership and sponsorship for the organization. She brings to this role broad energy industry experience as a regulator, utility executive, developer, consultant, and consumer advocate. Previously, she was Vice President, Regulatory Strategy and Policy at National Grid, Chair of the Massachusetts Department of Public Utilities, where she led electric industry restructuring, and an executive and expert consultant at Analysis Group and Lexecon. She also held senior staff roles at the Massachusetts Energy Office and New Hampshire Public Utilities Commission, served as policy director for a DC-based national independent power association, and began her career as a small hydro developer and low-income consumer advocate. Besser is a nationally recognized expert on a wide range of energy policy issues with deep relationships across the industry. She earned a Master in Public Policy degree from the John F. Kennedy School of Government, Harvard University and a B.A., *magna cum laude*, from Williams College.

*Hon. Jack Betkoski*, First Vice President, National Association of Regulatory Utility Commissions and Vice Chairman of Connecticut PURA – John "Jack" Betkoski III has served on Connecticut's utility regulatory authority since 1997 when he was named a Commissioner of the Department of Public Utility Control. He was elected Vice Chairman of that body in 2007. When the Connecticut Public Utilities Regulatory Authority (PURA) was established on July 1, 2011 as the state's new regulatory authority, Vice Chairman Betkoski was appointed a Director by Governor Daniel P. Malloy and elected as Vice Chairman. He also serves as First Vice President of NARUC, Chairman of the Connecticut Water Planning Council, and is a member of the American Water Works Association Research Foundation's Public Council on Drinking Water Research. He was also a member of the EPA National Drinking Water

Advisory Council, serving on its Water Security Working Group. Prior to his time at PURA, Vice Chairman Betkoski served as a member of the Connecticut General Assembly, representing the 105th District (Ansonia, Beacon Falls, and Seymour) as a state representative from 1987-1997. Vice Chairman Betkoski was the Waterbury Salvation Army's Director of Human Services from 1989-1997, and held various administrative positions in human services agencies from 1974-1989. He served on Beacon Falls' Board of Selectmen from 1981-1987 and Board of Finance from 1979-1981. He presently serves as Chairman of the Beacon Falls Economic Development Commission. Vice Chairman Betkoski was born in Waterbury and is a lifelong resident of Beacon Falls, Connecticut. He received his B.A. from Sacred Heart University, and his M.S. and Sixth Year Diploma in Advanced Studies in Administration and Supervision from Southern Connecticut State University.

*Todd Black*, Senior Vice President, External Affairs & Customer Relations, Unutil – Todd Black is the Senior Vice President of External Affairs and Customer Relations at Unutil Corporation, a natural gas and electric distribution company serving three states in New England. Black is responsible for Unutil's corporate sales, marketing, business development, distribution growth, customer relations, sustainable and energy efficiency, government affairs, public/media relations, and communications. Black has over 25 years of startup and executive level experience in the energy/utility industry and is a member of Unutil's Senior Executive Management Committee. Prior to his role as Senior Vice President, Todd served as President of Usource. Usource is Unutil's energy brokering and consulting subsidiary that provides customized energy management and procurement services to commercial, industrial, and institutional customers throughout the U.S.

*Robert W. Capstick, Jr.* – Director of Government, Public & Regulatory Affairs, Yankee Atomic Electric Company and Connecticut Yankee Atomic Power Company; Director of Regulatory Affairs, Maine Yankee – Bob Capstick has over 30 years of federal/state government relations and regulatory affairs experience. He is currently Director of Government and Public Affairs for Yankee Atomic Electric Company and Connecticut Yankee Atomic Power Company. He is also the Director of Regulatory Affairs for those two companies, as well as Maine Yankee Atomic Power Company. He was previously Project Manager for Duke Engineering & Services' northeast regulatory group, where he represented nuclear power companies with federal/state elected and regulatory officials, as well as with national industry organizations. Prior to that position, he was a Principal Licensing Engineer with the Regulatory & Industry Affairs Department of the Yankee Atomic Electric Company's Nuclear Services Division; Senior Licensing Engineer for the Vermont Yankee Nuclear Power Station representing VY with the Nuclear Regulatory Commission's Office of Nuclear Reactor Regulation; and a research analyst with the Energy Research Group, Inc. He is a member of the American Nuclear Society; the Nuclear Waste Strategy Coalition Executive Committee; the Decommissioning Plant Coalition Steering Committee; the Nuclear Energy Institute's Government Affairs Committee as well as several NEI nuclear waste storage & transportation related working groups and task forces; and the New England Council's Energy and Environment Committee.

*Richard Cowart*, Principal and European Programs Director, Regulatory Assistance Project – Richard Cowart directs European programmes for the Regulatory Assistance Project (RAP) in Brussels, Berlin, and Warsaw. He has deep experience on energy and environmental issues in the U.S., across Europe, in China, and several other nations. He sits on the Executive Committee of the IEA's Demand-Side Management programme, the Environmental Advisory Committee of the New York ISO, and recently finished his third term as Chair of the Electricity Advisory Committee of the US Department of Energy. His recent work focuses on power markets, demand side management, and energy efficiency programs throughout Europe. A highly experienced regulator, Cowart served as commissioner and Chair of the Vermont Public Service Board for 13 years. He was elected president of the New England Conference of Public Utility Commissioners and chair of the U.S. regulators' national Committee on Energy Resources and the Environment. He holds the Juris Doctor and MCP degrees from the University of California, Berkeley, where he was a faculty member and Director of the Program in Planning and Law.

*Margaret Curran*, Chairperson, Rhode Island Public Utilities Commission – Chairperson Margaret Curran was appointed to the Rhode Island Public Utilities Commission by Rhode Island Governor Lincoln Chafee in June 2013. Chairperson Curran served as United States Attorney (District of Rhode Island) from 1998 to 2003, previously serving as Assistant U.S. Attorney. She was most recently a member of the Rhode Island Parole Board, and is currently Chair of the Rhode Island health benefits exchange Advisory Board (HealthSource RI). Chairperson Curran has a B.A. in Biology from the University of Pennsylvania and an M.S. in Anthropology from Purdue University. Chairperson Curran received her J.D., with high honors, from the University of Connecticut School of Law, where she was Editor-in-Chief of the Connecticut Law Review. After graduation, she clerked for the Honorable Bruce M. Selya, in the United States District Court for the District of RI and for the Honorable Thomas J. Meskill, United States Court of Appeals for the Second Circuit. She has also been in private practice and served as Adjunct Professor of Law at the Roger Williams University School of Law, which awarded her an Honorary Doctor of Laws degree in 2003. In 2004, she received the John H. Chafee Memorial History Maker Award for Service. Chairperson Curran is a member of the American Law Institute and the First Circuit Court of Appeals Rules Advisory Committee, and she is an advisor on the Model Penal Code: Sentencing Project. She also belongs to the National Association of Former United States Attorneys and Bat Conservation International and is a member of the Board of Directors of the Institute for the Study & Practice of Nonviolence.

*Derek R. Doan*, Senior Manager for the Northeast Region for Public Sector and Education Sales, T-Mobile – Derek Doan is Senior Manager for the Northeast Region – Public Sector and Education Sales at T-Mobile. In that position, he leads a team of Government Account Managers who support key clients in State, Local, City and Education (K12/Higher Ed). In addition, Doan represents T-Mobile and Military Veterans by working in partnership with other private sector firms to share best practices around hiring and supporting those who defend our country. He spent 12 years serving his country; two years in the U.S. Navy and 10 years in the U.S. Army Reserves where he graduated with honors from Primary Leadership and Development Course earning the rank of Sargent. Doan received his Business Degree from Goldey-Beacom College where he concentrated on Sales and Marketing. Doan has led teams in Philadelphia, St. Louis, Chicago, and Washington D.C. earning many awards for record sales growth along with supporting the largest government agencies. Doan currently resides in New Jersey with his wife Jennifer, their two daughters, Delaney and Carly, and, son, Jakob, as well as their dog, Angie.

*Richard Fioravanti*, Principal, Engineering Management Consulting Practice Energy and Utilities, Exponent, Inc. – Richard Fioravanti joined Exponent, Inc. in July of 2016 and brings over 20 years of experience working with emerging energy technologies in both commercial and consulting roles. He has worked with major manufacturers, utilities, state/federal agencies, and developers to understand and deploy advanced energy systems. He currently focuses his efforts on electricity storage and distributed energy resources, linking the technologies to grid modernization and utility of the future initiatives. In his commercial roles, he helped develop and deploy advanced microturbines, fuel cells, and CHP systems. He has authored several papers on advanced storage technologies and has been cited frequently as a leader in his field. Fioravanti also was a founding Board Member of New York BEST (Battery and Energy Storage Technology Consortium) and served on their Board for five years. He received his M.B.A and a B.S. in Electrical Engineering from the University of Southern California.

*William S. Fowler*, President and Co-Founder, Sigma Consultants and Chair of New England Power Pool's Integrating Markets and Public Policy Process – Bill Fowler is the president and co-founder of Sigma Consultants Inc., in which capacity he represents the interests of clients in the NEPOOL and ISO-NE stakeholder processes. Since the opening of markets in New England in 1998, Fowler has participated in market design, reliability review, planning, and rule development through all of the major NEPOOL committees. In addition to stakeholder activities, Fowler has managed the interconnection process for over 3,400 MW of new and uprated generation within the region. He has served as Vice Chair of the NEPOOL Reliability Committee, is currently Vice Chair of the Markets Committee, and Chair of the Integrating Markets and Public Policies (IMAPP) Process. Fowler has over 30 years of experience with

deregulated markets and independent power production. Prior to work within NEPOOL, he managed development, interconnection, and compliance activities for new gas-fired and hydroelectric power facilities. Fowler holds an S.B in Electrical Engineering from the Massachusetts Institute of Technology.

*Colin Gounden*, Chief Executive Officer, Via Science – Colin Gounden is the CEO of Via Science. Colin works directly with federal and state energy regulatory agencies and top 20 global power companies to improve the efficiency of electricity generation, transmission, and distribution through AI software. Prior to Via Science, Gounden was the first investor and co-founder of a number of MIT spinouts, two of which became profitable in their first year of operations. Previously, he successfully sold Grail Research, where he was founder and CEO. Under Gounden's leadership, Grail Research grew from its first employee in 2006 to a leading business intelligence and analytics firm with more than 300 full-time employees in North America, Europe, Africa, Middle East, India, and China in 2009. Gounden went on to become chief marketing officer and then president across all business units of the acquiring company (18 locations and 2,000 people). Prior to founding Grail Research, Gounden was a partner and elected board director at a top five global strategy consulting and private equity investment firm with \$2Bn in assets under management. He also previously worked with IBM in France, the UK, Mexico, and the U.S. before co-founding a technology services firm that he grew and sold for \$98M in 1999. Gounden has been featured in *The Wall Street Journal*, *Forbes*, *Fast Company*, *WIRED*, and the *Financial Times* and is a frequent guest speaker at advanced technologies events. Gounden graduated from Harvard University with a degree in biochemistry and molecular biology.

*Victoria Hackett*, Director of Adjudications, Connecticut Public Utilities Regulatory Authority – Victoria Hackett joined the Connecticut Public Utilities Regulatory Authority as its Director of Adjudications in March of 2017. Hackett leads PURA's team of seven attorneys, oversees the legal aspects of all matters before the agency, advises on legislative and policy issues, and serves as general counsel to PURA's Commissioners. Prior to joining PURA, Hackett was an attorney at the Connecticut Office of Consumer Counsel for over ten years, appearing before PURA and other state agencies, Connecticut courts, and the legislature. Her practice areas at OCC included all aspects of electric, gas, and water regulation, as well as energy policy development. As a senior attorney, she was lead legal in a variety of rate cases, mergers and acquisitions, investigations, and other significant proceedings. Prior to joining the OCC, she was engaged in commercial and general litigation in private practice for four years. Hackett graduated from the University of Virginia School of Law and received her B.A. in Sociology/Anthropology, *magna cum laude*, from Western Connecticut State University, where she was named Alumna of the Year in 2011.

*Hon. Sarah Hofmann*, Member, Vermont Public Service Board – Sarah Hofmann was appointed to be a member of the Vermont Public Service Board by Governor Peter Shumlin beginning on March 1, 2015. Prior to her appointment she was the Executive Director of the New England Conference of Public Utilities Commissioners, Inc. (NECPUC). Before NECPUC, Commissioner Hofmann worked for the Vermont Department of Public Service for over sixteen years, first as a staff attorney, then as the Director for Public Advocacy and Consumer Affairs and finally as the Deputy Commissioner. At the Department, Commissioner Hofmann represented the interests of the public in regulated utility matters before Vermont and federal regulatory agencies and courts. She also worked with the legislature on regulatory issues and advised the Commissioner of the Department of Public Service and Governor on utility matters. Earlier in her career Commissioner Hofmann served as one of two Juvenile Defenders in the State of Vermont. She also has been a Legal Aid lawyer in Illinois. Commissioner Hofmann has a BA from Rollins College and a JD from the University of New Hampshire School of Law. She resides in Montpelier, Vermont.

*Hon. Martin Honigberg*, NECPUC President and Chair of the New Hampshire Public Utilities Commission – Chairman Honigberg was appointed to the New Hampshire Public Utilities Commission by Governor Maggie Hassan in December 2013 and became the Chairman a year later. Prior to his appointment, he was a partner at the Concord, NH law firm of Sulloway & Hollis for eleven years. At Sulloway & Hollis, Chairman Honigberg represented clients in a variety of litigation matters before state and federal courts, as well as administrative tribunals. He also served as leader of the Government Relations Practice Group. Chairman Honigberg served as special counsel to New Hampshire Governor

Jeanne Shaheen (2001-2003) and as Senior Assistant Attorney General in New Hampshire (1994-1999). He also practiced law at the law firms of Rath, Young & Pignatelli in Concord, NH (2000-2001), Goodwin, Proctor & Hoar in Boston, MA (1989-1994) and Dickstein, Shapiro & Morin in Washington, D.C. (1985-1989). He has served the Concord School District in various positions, including as an elected board member, has been a member of the New Hampshire Supreme Court Advisory Committee on Rules since 2002, and was on the New Hampshire Bar Association Board of Governors from 2001-2005. Chairman Honigberg holds a J.D. from Vanderbilt University and an A.B. from Amherst College.

*Arthur House*, Chief Cyber Security Risk Officer, State of Connecticut – House became Chief Cybersecurity Risk Officer for the State of Connecticut in October 2016 after four years as Chairman of Connecticut’s Public Utilities Regulatory Authority. During that time he also Co-Chaired the NECPUC subcommittee on cybersecurity. House has a background in national security, having served as Director of Communications in the Office of the Director of National Intelligence and as Chief of the Communications Group for the National Geospatial-Intelligence Agency, a combat support agency of the U.S. Department of Defense. As a White House Fellow he served as Special Projects Officer on the staff of the National Security Council. In the private sector, House was Senior Vice President of Public Affairs at Webster Bank and also held senior executive positions at Cigna, Aetna, and Tenneco. His career has also included three positions in the United States Senate: Chief of Staff to former Connecticut Senator Abraham Ribicoff, Staff Director of the Democratic Policy Committee for former Senate Majority Leader Robert Byrd, and Legislative Assistant to Senator Chris Dodd. House is a graduate of Tufts College and has a Ph.D degree from the Fletcher School of Law and Diplomacy at Tufts University. He has published a book and several articles on international relations subjects and taught graduate courses at the Fletcher School and at the University of Connecticut and Georgetown University. House is married to Rita Jepsen. They live in Simsbury, Connecticut.

*Louis James*, Director, Business Development, UGI Energy Services – Louis James is Director of Business Development at UGI Energy Services LLC. James is responsible for the identification, evaluation, negotiation, and implementation of a variety of conventional and renewable energy-related assets and business opportunities. He has been involved in several key projects over the past several years, most recently the development of a greenfield LNG liquefier in northcentral Pennsylvania, which is currently being commissioned. In addition, James had a key role organizing the company’s LNG marketing group, construction of a 1 BCF LNG storage tank and liquefaction expansion at UGIES’ existing LNG plant at Temple, Pennsylvania. He has also been instrumental in development and construction of several solar facilities throughout the Mid-Atlantic, a large-scale landfill gas-to-power project, and conversion of a coal-fired power plant to a natural gas combined-cycle unit at Hunlock, Pennsylvania. Prior to joining UGI Energy Services, James held business development positions at Sunoco Logistics Partners, Sithe Energies, Williams Energy & Trading, and Chase Econometrics. James has a Bachelor of Science degree in geology from Long Island University and a Master of Science degree in energy economics and finance from West Virginia University.

*Jesse Jenkins*, PhD Candidate, Massachusetts Institute of Technology – Jesse Jenkins is a PhD candidate in Engineering Systems at MIT's Institute for Data Systems and Society and a researcher with the MIT Energy Initiative. Jenkins applies an interdisciplinary approach to study electric power sector operations, regulation, and market design, with a focus on two overarching trends transforming the electricity sector: the transition to zero carbon power systems and the proliferation of distributed energy resources. He is currently extending electricity resource capacity expansion methods to study the economics of distributed energy resources, exploring electricity market designs for zero-carbon power systems, and researching the contribution of energy storage and flexible nuclear power plant operations to climate mitigation in the electric power sector. Jenkins earned a S.M. in Technology & Policy at MIT in 2014 and previously directed the Energy and Climate Program at the Breakthrough Institute, a public policy think tank. His research and writing has been featured in invited testimony before the United States Senate Committee on Energy and Natural Resources and in major media outlets including NPR, the *New York Times*, *Wall Street Journal*, *Washington Post* and *Time Magazine*.

*Michael Jennings*, Senior Program Manager, New England Interstate Water Pollution Control Commission – Michael Jennings currently serves as senior program manager at the New England Interstate Water Pollution Control Commission within the Water Resource Protection division. He has been with NEIWPC since late 2000. He is the project manager for the development of the Connecticut Statewide Water Plan; providing management oversight of the contractor tasked with developing the plan. Jennings' previous roles at NEIWPC include serving as director of water resource protection programs, and manager of the Massachusetts certification programs within the Wastewater and Onsite Systems Division.

*Tom Kaslow*, Director, Market Design & Policy, FirstLight Power Resources Inc. – Tom Kaslow is the Director of Market Design and Policy for FirstLight Power Resources, an independent power producer with over 1300 megawatts of hydro and pumped storage generation in New England. Kaslow has over 25 years of industry experience in both regulated and competitive power companies. Kaslow served as a New England Power Pool (NEPOOL) expert witness at FERC in the initial restructuring of the New England wholesale electric markets, has represented several independent power producers since restructuring, has previously served as Chairman of the Board of the New England Power Generators Association and currently serves as the Chairman of the New England Power Pool.

*Brandon Kernen*, Hydrology and Water Conservation and Water Use Program Manager, New Hampshire Department of Environmental Services – Brandon Kernen is the Manager of the Hydrology and Conservation Program at the Department of Environmental Services. His responsibilities include oversight of programs associated with groundwater withdrawals, groundwater discharges, water use reporting, water conservation, water well construction and well driller licensing. Kernen also has coordinated Department initiatives associated with the occurrence of emerging contaminants of concern in the environment, drought management, and the impact of rock blasting on private and public drinking water supplies. He has a graduate degree in Civil and Environmental Engineering from Tufts University and an undergraduate degree in Hydrology and Water Resources from the University of Arizona.

*Thomas Kiley*, President and CEO, Northeast Gas Association – Tom Kiley is President and CEO of the Northeast Gas Association (NGA). Tom became president of NGA on January 1, 2003, when the organization was formed as a result of the merger of The New England Gas Association and the New York Gas Group. He previously served as president of The New England Gas Association from 1985 to January 2003; and as Acting Executive Director of the New York Gas Group from April 2001 to January 2003. He is a graduate of Holy Cross College and has done graduate work in Northeastern University's MBA program. Kiley is a Past President of the Society of Gas Lighting, is Secretary of the Guild of Gas Managers and is a Past Chairman of the New England Society of Association Executives.

*Hon. Cheryl LaFleur*, Acting Chairman, Federal Energy Regulatory Commission – Acting Chairman Cheryl A. LaFleur was first nominated by President Barack Obama to the Federal Energy Regulatory Commission in 2010 and was confirmed for a second term by the United States Senate in 2014. On January 23, 2017, she was appointed Acting Chairman by President Donald Trump. She was previously appointed by President Barack Obama to serve as Acting Chairman of the Commission from November 2013 to July 2014 and as Chairman from July 2014 until April 2015. Prior to joining the Commission, Acting Chairman LaFleur had more than 20 years' experience as a leader in the electric and natural gas industry. She served as executive vice president and acting CEO of National Grid USA, responsible for the delivery of electricity to 3.4 million customers in the Northeast. She has also been a nonprofit board member and leader. Acting Chairman LaFleur began her career as an attorney at Ropes and Gray in Boston. She has a J.D. from Harvard Law School and an A.B. from Princeton University. A native of Massachusetts, she is married to William Kuncik, a retired attorney, and they are the parents of two grown children.

*Michael Licata*, Director, Government and Community Relations, Liberty Utilities – Michael Licata serves as the Director of Government and Community Relations for Liberty Utilities, East Region. In this role Licata manages the company's external relationships and advocates for Liberty's positions before state and local government. Licata joined Liberty Utilities in December 2014, prior to that he was the

Vice President of Public Policy at the Business and Industry Association of New Hampshire. In that role, Licata represented the Association before the state legislature in New Hampshire and managed the Association's Energy and Telecommunications and Environmental Affairs Policy Committees. Before his tenure at the Business and Industry Association and Liberty Utilities, Licata was the Federal Government Affairs Associate for Northeast Utilities in Washington D.C., where he served as treasurer of the employees' political action committee. From 2002 to 2006, Licata was the Senior Legislative Assistant for Congressman Jeb Bradley. Licata covered several issues for the Congressman, including energy, telecommunications, transportation, and taxation. Licata also served as the Congressman's staffer to the House Budget and Small Business Committees.

*Kyle Mallinger*, Director of Marketing, Zco Corporation – Kyle Mallinger is the Director of Marketing for Zco Corporation. Throughout his career, Mallinger has led company growth for multiple organizations through strategic planning and focused marketing tactics. As a member of the executive team, he is responsible for implementing strategic vision for marketing and sales, fostering employee growth, and driving company profitability. As a leading marketing expert, Mallinger leverages detailed data and analytic insights to pinpoint growth opportunities through marketing automation, SEO, inbound marketing, programmatic ad buying, and more. Prior to joining Zco, Mallinger led the implementation of 11 international go-to-market strategies for global education provider Navitas. Along with this he has spearheaded the creation and implementation of new departments from the ground up, including policy development, staffing, and operations. Mallinger holds a MS in Marketing from Southern New Hampshire University and BS in Marketing from Plymouth State University. A New York native, Mallinger now lives in New Hampshire along with his wife Courtney.

*Natividad Martel*, Vice President – Senior Analyst, Moody's Investors Service – Natividad (Nati) Martel serves as a Vice President – Senior Analyst in the Global Infrastructure Finance Group. She currently is responsible for a portfolio consisting of utilities as well as wholesale power generators in Latin America and the U.S. Martel joined Moody's in 2004. Prior to joining Moody's, Martel worked for five years as a credit analyst in the Project Finance/Corporate Finance area at Landesbank HessenThuringen, in Frankfurt, Germany. Martel was awarded a Bachelor's and Master's degree in business with a concentration in finance by the Complutense University of Madrid, Spain. She was also awarded an advanced degree in banking studies by the Business School of Finance and Management in Frankfurt. She received her CFA designation in 2008.

*Ed Mayer*, Program Director, Holtec International – Ed Mayer is a program director for Holtec International, a company widely recognized as the foremost technology innovator in the field of carbon-free power generation, specifically commercial nuclear and solar energy. Mayer joined Holtec International in August 2015. In his role, Mayer is responsible for the Holtec Technology Campus in Camden, NJ – a 50 acre, \$320M state-of-the-art campus situated on the Delaware River. The project is aimed to help revitalize the City of Camden, a former bastion of technology and manufacturing. Construction was completed December 30, 2016, 18 months ahead of schedule. Mayer also is responsible for the Consolidated Interim Storage Facility in southeastern New Mexico. The facility which is in the design phase will address the Nation's spent nuclear fuel issue with the safest technology licensed by the USNRC. The site-specific license for the facility was submitted to the USNRC on March 31, 2017. Prior to these roles at Holtec International, Mayer served 28 years in the U.S. Submarine Force where he commanded the USS Oklahoma City (SSN-723) and USS Florida (SSGN-728). Mayer is a graduate of Pennsylvania State University where he earned a B.S. in Chemical Engineering. He and his wife Michele reside in Medford with their two daughters Melissa and Sara.

*Louise McCarren*, Independent Consultant – Louise McCarren has worked in all aspects of electricity and communications regulation, both as a regulator and with regulated companies. She was Chair, Vermont Public Service Board (1981-1987); Commissioner of the Vermont Department of Public Service (1990); President, Verizon, Vermont (1997-2003); and Managing Director - State Regulatory Planning for Verizon (1993-1997). Most recently, McCarren was the CEO of the Western Electricity Coordinating Council (2003-2010). She served on the ISO-New England Board of Directors from 2001-2012. She

served on the Vermont Energy Generation Policy Siting Commission (2012) and the Vermont Telecommunications Authority Board (2011- 2013). She attended the University of California, Berkeley and holds a J.D. from the University of California, Los Angeles.

*Joseph H. McClelland*, Director, Office of Energy Infrastructure Security, Federal Energy Regulatory Commission – Joseph H. McClelland was appointed the first Director of the Office of Energy Infrastructure Security (OEIS) by former Chairman Jon Wellinghoff in September 2012. OEIS provides leadership, expertise, and assistance to identify, communicate and seek comprehensive solutions to potential risks to FERC-jurisdictional facilities from cyber attacks and such physical threats as electromagnetic pulses. Prior to directing OEIS, McClelland served as the first Director of the Office of Electric Reliability, which was created in 2007. He joined the Commission in 2004 as Director of the Division of Reliability within the Office of Energy Markets and Reliability. McClelland came to the Commission with more than 20 years of experience in the electric utility industry. He began his career with Allegheny Energy Inc., holding a variety of positions in engineering, marketing, regulation, and rates, and project development. Immediately prior to joining the Commission, McClelland was the General Manager of the Custer Public Power District in Broken Bow, Nebraska. McClelland holds a Bachelor of Science degree in Electrical Engineering from Pennsylvania State University. McClelland lives in Chambersburg, PA with his wife and sons and commutes to Washington, D.C., every day.

*Rod McCullum*, Senior Director, Fuel and Decommissioning Programs, Nuclear Energy Institute – Rod McCullum has been working on regulatory issues at NEI since 1998. He has 30 years of nuclear engineering, licensing, management, and regulatory policy experience. Currently, at NEI, he leads industry technical and regulatory efforts to improve used fuel and decommissioning management systems. McCullum held prior positions in Government (with the Department of Energy) and Industry (at three commercial nuclear power plants). He has a Bachelor of Science degree in Nuclear Engineering (University of Cincinnati, 1985) and a Master of Business Administration degree (Lewis University, 2000).

*Katrina McMurrian*, Executive Director, Nuclear Waste Strategy Coalition – A former Florida Public Service Commissioner (2006-2009), Katrina McMurrian draws upon extensive regulatory experience to advise an array of private and public stakeholders on key regulatory and policy issues in the energy arena. McMurrian currently serves as Executive Director of the Nuclear Waste Strategy Coalition (NWSC), an ad hoc organization representing the collective interests of member state utility regulators, state consumer advocates, state radiation control officials, state energy officials, tribal governments, local governments, electric utilities with operating and shutdown nuclear reactors, and other public and private sector experts on nuclear waste policy matters. McMurrian also serves as Executive Director of the Critical Consumer Issues Forum (CCIF), a unique national forum in which state regulators, consumer advocates, and electric utilities – via a series of facilitated, interactive dialogues – engage in productive dialogue on key issues of importance to consumers and policymakers. McMurrian frequently interacts with Congressional offices; Administration officials; state and federal utility regulators; state and national consumer organizations; industry representatives; and numerous other public and private stakeholders on matters related to the work of NWSC and CCIF. McMurrian received a Bachelor's degree in finance and an MBA from Florida State University. She and her husband currently reside near Nashville, Tennessee.

*Milda Morkyte*, Manager of International Programs, National Association of Regulatory Utility Commissioners – Milda Morkyte is a Program Manager at NARUC, where she oversees several international programs in Africa, Latin America and Asia. In Africa, she works closely with foreign regulatory agencies and energy ministries, U.S. state regulators, and U.S. Government agencies (the United States Agency for International Development and Department of State's Bureau of Natural Resources) to enhance energy sector regulation in Botswana, Kenya, Namibia, Tanzania, and Zambia. Morkyte has organized workshops on a range of energy sector issues, including natural gas regulation, renewable energy procurement policies and auctions, open transmission access, transmission planning and wheeling, power purchase agreements, regulation of off-grid and interconnected mini-grid systems and rate setting. Morkyte has led a number of delegations from various U.S. regulatory commissions to



Kenya, Tanzania, and Namibia. Morkyte joined NARUC after receiving an MA in Global Affairs from Yale University in 2015, where she focused on the political economy of global energy markets. Morkyte also has a BA in Political Science from Vilnius University (Lithuania) and has held several program management roles in non-governmental organizations in Washington, DC as well as a public sector consultant in Lithuania.

*Hon. Angela O'Connor*, Chair, Massachusetts Department of Public Utilities – Angela M. O'Connor was appointed by the Governor of Massachusetts as the Chairman of the Department of Public Utilities in January of 2015. Prior to being appointed, Chair O'Connor was the Executive Director of TechNet for the northeast region. TechNet is a national, bipartisan CEO-led trade association founded in 1997 to create a bridge for the technology industry with state and federal policymakers. Chair O'Connor joined TechNet from the New England Power Generators Association (NEPGA). As the organization's founding president, Chair O'Connor provided strategic leadership to NEPGA and served as chief spokesperson. Chair O'Connor previously served as Vice President of Energy Policy at Associated Industries of Massachusetts (A.I.M.), the Commonwealth's principal statewide employer organization. Before joining A.I.M., Chair O'Connor was Operations Manager for Massachusetts Health and Educational Facilities Authority PowerOptions program, the largest energy purchasing consortium in New England. Earlier in her career she worked in marketing for the Boston Celtics, served as an environmental assistant to the city of Boston's Environmental Department, and was a small business owner. She also served as chairman of the Board of Selectmen for the Town of Rockport. Chair O'Connor is a graduate of The University of Massachusetts - Boston.

*Hon. Anthony J. O'Donnell*, Commissioner, Maryland Public Service Commission – Anthony J. O'Donnell was appointed to the Maryland Public Service Commission in August 2016. As a member of NARUC, he is currently serving as Chairman of the Subcommittee on Nuclear Issues and Waste Disposal. Prior to his appointment to the PSC, he served in the Maryland House of Delegates since January 1995. Delegate O'Donnell served in a variety of leadership roles in the Maryland House including House Minority Whip (2003-06) and House Minority Leader (2006-13). Commissioner O'Donnell worked for 15 years at the Calvert Cliffs Nuclear Power Plant in Lusby, Maryland. He served in various capacities including as a Nuclear Instrumentation and Controls (I&C) Technician, as a Nuclear Maintenance Supervisor, as a Nuclear Maintenance Engineering Analyst, and as the Director – Emergency Preparedness. Prior to working at Calvert Cliffs, Commissioner O'Donnell served for over 8 years in the United States Navy Nuclear Propulsion Program. While still on active military duty, Commissioner O'Donnell earned a B.S. degree (1985) from the University of the State of New York, Regents College (now known as Excelsior). Commissioner O'Donnell is married and lives in Lusby, Maryland. He and his wife have three grown children and two grandchildren.

*Christopher Parent*, Director of Market Development, ISO New England – Christopher Parent is Director of Market Development at ISO New England. In this role, he is responsible for the design and development of changes to the New England wholesale electricity markets. He has been with the ISO since 2004, having held various positions responsible for ensuring the settlement of the markets, analyzing market outcomes, implementing market solutions, and overseeing quality management programs before taking over his responsibilities in Market Development in 2010. Prior to joining the ISO, Parent worked for Accenture (formally Andersen Consulting) in their energy practice, primarily focused on the electricity sector. He was responsible for developing business and technology solutions to implement Independent System Operator and Regional Transmission Organization market designs and he also worked with a number of energy industry firms to enhance their trading and back office processes and enable them to better integrate with the ISO/RTO markets. Parent holds a B.S. in Business Administration with a minor in Computer Science from St. Michael's College in Vermont.

*Hon. Karen Charles Peterson*, Commissioner of the Massachusetts Department of Telecommunications and Cable – Karen Charles Peterson formerly served as Chief of Staff for the Department. Prior to joining the Department, she served as acting Chief of Staff for the MBTA. Commissioner Peterson has years of leadership experience in city and state government, including Chief of Staff of the Executive Office of

Transportation and of the Registry of Motor Vehicles. For 5 years she was the booking producer for the award winning news program, *Greater Boston with Emily Rooney* on WGBH. Commissioner Peterson is a 1993 graduate of Suffolk University where she received a Bachelor of Science degree in Government. She is a 1997 graduate of the Center for Women in Politics and Public Policy at the University of Massachusetts, Boston. Commissioner Peterson is the past president of the Conference Of Minority Transportation Officials (COMTO), and the 1999 recipient of the Wonder Woman Award from The Massachusetts Women's Political Caucus. Commissioner Peterson served as a Trustee at the Advent School in Boston, where she recently led the search for the new Head of School. Commissioner Peterson's hobbies include reading and traveling. She lives in Boston with her husband, Kevin C. Peterson.

*Paul Roberti*, Executive Director, Advisory Services – Strategy, Ernst & Young – A 20-year veteran of energy and utility market structures, Roberti joined Ernst & Young after serving seven years as Commissioner at the Rhode Island Public Utilities Commission. During his tenure as Commissioner, Roberti became a national figure on the issue of ensuring that necessary investments are made throughout the United States to maintain safe and reliable delivery of natural gas to the consuming public. Previously, Roberti was Chief of the Regulatory Division at the Attorney General's Office, having served as Assistant Attorney General under four consecutive administrations. He currently works in EY's Mexico City office helping clients navigate through the unprecedented energy reforms in the natural gas and electricity sectors.

*Jim Roche*, President, New Hampshire Business & Industry Association – Jim Roche has led the Business & Industry Association of New Hampshire (BIA) as its president since 2005. BIA is New Hampshire's statewide chamber of commerce. Its members employ 86,000 people throughout the state and contribute \$4.5 billion annually in payroll to the state's economy. BIA's mission is to promote a healthy climate for job creation and a strong New Hampshire economy. Roche has a background in marketing communications, economic development and public affairs. Previous positions include director of corporate communications, International and Corporate Service Groups, Thompson Legal and Regulatory, Inc., of St. Paul, Minnesota; vice president of Advantage Minnesota, Inc., Minnesota's former economic development marketing corporation; president of the Mohawk Valley Chamber of Commerce, Inc. in upstate New York; and district director for a Member of the U.S. House of Representatives. Roche has been a chamber executive for 15 years and was named "2015 Chamber Executive of the Year" by the New England Association of Chamber of Commerce Executives. Roche also serves on the U.S. Chamber of Commerce's "Committee of 100" comprised of the nation's leading chamber executives. Roche is a graduate of the University of Minnesota and comes from a family of 10 children. He boasts two of his own, Abby and Joe.

*Hon. Jeanne Shaheen*, United States Senator, State of New Hampshire – The first woman in U.S. history to be elected both a Governor and a United States Senator, Jeanne Shaheen has been committed to serving the citizens of New Hampshire and is known for her common-sense leadership, hard work and dedication to improving the lives of the middle class. She has served in the United States Senate since 2009 and is a member of the Senate Committees on Armed Services, Foreign Relations, Appropriations, and is Ranking Member of the Small Business and Entrepreneurship Committee. As a long-standing advocate for energy efficiency, Shaheen created programs while Governor that saved New Hampshire families and businesses over \$1 billion through energy efficiency. In the Senate, Shaheen introduced bipartisan legislation that would create a national energy efficiency strategy to foster job creation, save businesses and consumers money and reduce pollution. She was successful in passing several provisions of her energy efficiency plan that will help businesses create jobs and consumers reduce energy costs. According to a study by the American Council for an Energy-Efficient Economy (ACEEE) Shaheen-Portman is estimated to create more than 190,000 jobs, save consumers \$16.2 billion a year, and cut CO2 emissions and other air pollutants by the equivalent of taking 22 million cars off the road by 2030. Shaheen served as Governor of New Hampshire from 1997 to 2003. Between her time as Governor and election to the U.S. Senate, Shaheen served as the Director of Harvard University's Institute of Politics at the Kennedy School of Government. Shaheen received a bachelor's degree from Shippensburg University in Pennsylvania and a

master's degree from the University of Mississippi. She and her husband, Bill, live in Madbury, NH, and have three daughters, Stefany, Stacey and Molly, and seven grandchildren.

*Michael Sheehan*, Senior Counsel, Liberty Utilities – Mike Sheehan is Senior Counsel for Liberty Utilities in New Hampshire, which consists of a natural gas utility of almost 100,000 customers, and an electric utility of about 45,000 customers. Prior to joining Liberty in 2015, Sheehan was staff counsel at the NH Public Utilities Commission for just over two years. Sheehan's pre-utilities career consisted of 25 years as a trial lawyer focusing on civil rights litigation, completing about 50 jury trials. Sheehan graduated from Ithaca College and Northeastern University School of Law.

*Maureen D. Smith*, Shareholder, Orr & Reno – Maureen D. Smith is a Director of Orr & Reno, P.A. in Concord, New Hampshire and chairs the Energy & Environmental Practice Groups. Smith's practice includes representing individual, commercial and industrial clients in transactional and litigation settings on a range of environmental, energy, and land use issues, where she focuses on regulatory compliance counseling, environmental due diligence, contract review, federal and state enforcement proceedings, and energy facility siting and permitting. She formerly served as a Senior Assistant Attorney General for New Hampshire and was a member of the Department of Justice Ethics Committee. She also served in the U.S. Environmental Protection Agency's Office of General Counsel in Washington, D.C. Smith was Vice Chair of the Energy & Telecommunications Policy Committee for the New Hampshire Business & Industry Association. She chaired and continues to serve on the New Hampshire Bar Association's Environment & Natural Resources Committee and the Bar's Ethics Committee. She also serves on the Board of Trustees for The Nature Conservancy (NH Chapter) and chairs the Policy Committee. Smith received her Juris Doctor degree from Georgetown University and her Bachelor of Science degree from the University of Michigan. She is a frequent author and lecturer on environmental, energy, and ethics topics.

*Hon. Robert Scott*, Commissioner, New Hampshire Public Utilities Commission – Commissioner Scott was appointed by Governor John Lynch as Commissioner of the New Hampshire Public Utilities Commission in March 2012. He previously served with the New Hampshire Department of Environmental Services as Air Resources Division Director (2003-2012), a position to which he was originally appointed by Governor Craig Benson. Prior to 2003 he served in various positions with the Department of Environmental Services. He worked as an engineer in private industry from 1990 to 1995 and as a munitions and aircraft maintenance officer in the United States Air Force from 1986 to 1990. Commissioner Scott currently serves on the Board of Directors of the National Association of Regulatory Utility Commissioners (NARUC) and on the Committee on Critical Infrastructure as well as the Committee on Energy Resources and the Environment. Commissioner Scott is on the Regional Greenhouse Gas Initiative, Inc. (RGGI) Board of Directors, and Co-Chairs the New England Conference of Public Utilities Commissioners (NECPUC) subcommittee on cyber security. In 2013 Governor Maggie Hassan appointed Commissioner Scott as New England States Committee on Electricity (NESCOE) manager to represent New Hampshire on regional electricity matters. He also formerly served as co-chair of the Northeast Energy Efficiency Partnerships (NEEP) Evaluation, Measurement and Verification Forum Steering Committee. Commissioner Scott holds a B.S. in Mechanical Engineering from Lehigh University. He recently retired as a cyberspace operations officer with the Air National Guard after 30 years of Air Force service. During this time he was commander of the 332<sup>nd</sup> Expeditionary Communications Squadron, commander of the 243<sup>rd</sup> Engineering Installation Squadron, and finally commander of the 265<sup>th</sup> Combat Communications Squadron of the Maine Air National Guard.

*Robert Stoddard*, Senior Consultant, Charles River Associates – Robert Stoddard is an economist and energy executive who has worked closely with power industry participants since the opening of competitive electricity markets. Stoddard is best known for his work on capacity market design, as he played central roles in settlement talks leading to the development of New England's Forward Capacity Market and PJM's Reliability Pricing Mechanism. He was also the principal author of a similar design in California that had widespread stakeholder support. On behalf of the Conservation Law Foundation and in collaboration with Brattle group economists, Stoddard is active in the NEPOOL Integrating Markets

and Public Policy process and was an invited speaker at the recent FERC Technical Conference on integrating renewables in wholesale markets. His testimony to FERC, state commissions, and state legislatures has also included major assignments on power plant valuation, pricing of transmission, congestion and losses, long-term power purchase agreements, assessing claims of market manipulation, and competitive analysis of acquisitions. Stoddard is President & CEO of GWave LLC, an ocean wave energy technology company that was recently granted a U.K. Marine License for its first full-scale deployment, and is a Senior Consultant with Charles River Associates, a global economics, finance, and management consultancy.

*Hon. Chris Sununu*, Governor, State of New Hampshire – Governor Christopher T. Sununu is serving his first term as Governor of the State of New Hampshire. He is currently the youngest Governor in the country. Governor Sununu served three terms on the New Hampshire Executive Council representing 32 cities and towns in Rockingham and Hillsborough counties. The five member Executive Council provides unique oversight of the state's executive branch sharing many of the same powers of the Governor and stands as the only one of its kind in the United States. In 2010, Governor Sununu led a group of investors in the buyout of Waterville Valley Resort where he worked as Chief Executive Officer. Waterville Valley employs over 700 people in the North Country and he led an aggressive expansion effort of the ski resort in cooperation with the United States Forest Service. Prior to the Waterville purchase, Governor Sununu was an owner and Director of Sununu Enterprises, a family business and strategic consulting group. He focused much of his time on local, national, and international real estate development, venture technologies, and business acquisitions. Governor Sununu grew up in Salem, NH. He graduated from Massachusetts Institute of Technology (M.I.T.) with a BS in Civil/Environmental Engineering and worked for ten years cleaning up hazardous waste sites. In 1998, Governor Sununu completed a five-month through-hike of the Appalachian Trail from Maine to Georgia. Governor Sununu lives in Newfields with his wife, Valerie, and their three children, Calvin, Edie, and Leo.

*Barbara Tyran*, Executive Director, Government & External Relations, Electric Power Research Institute – Barbara Tyran is Executive Director, Government & External Relations, in EPRI's office in Washington DC. She serves as the principal liaison between EPRI executive management, and Congress, the Administration, the national trade associations, the national leadership of the state public utility commissions, state legislators/regulators, and the Washington energy community. Tyran joined EPRI in 1998 after serving for several years as Manager of Federal Government Affairs for two electric utilities, Kansas City Power & Light (now Great Plains Energy, Inc.) and Empire District Electric Company. Previously, she was the Washington Representative for the Detroit Edison Company (now DTE Energy). Prior to that, Tyran worked as a management consultant, initially with Booz Allen & Hamilton in their Institutional Management Consulting Division and subsequently, with Pace Global, where she was engaged with energy-related clients in both the private and public sectors. In recognition of her electricity industry expertise and knowledge, she was appointed in 2005 by the Secretary of Commerce to the Industry Trade Advisory Committee on Energy and Energy Services, elected Chairman in 2010, and re-elected in 2014. Tyran is Chairman of the Association of State Energy Research and Technology Transfer Institutions Board of Directors, and serves on the Advisory Council of the Maryland Clean Energy Center. In 2015, she was elected Treasurer of the Women's Council on Energy & the Environment. She is a member of the Center for Public Utilities Advisory Council and the Executive Council of the annual Energy Efficiency Forum at the National Press Club. In 2014, Tyran was General Chairman of the IEEE Power & Energy Society General Meeting Local Organizing Committee, hosting 3000 delegates from over 50 nations. Tyran holds a BA degree with Honors from Stanford University and an MBA from Yale University.

*Gordon van Welie*, President and Chief Executive Officer, ISO-NE – Gordon van Welie is President and Chief Executive Officer of ISO New England Inc., having previously served as the company's Executive Vice President and Chief Operating Officer. He joined ISO New England from Siemens Power Transmission & Distribution LLC, where he served as Vice President and General Manager of the Power Systems Control Division and was responsible for managing information technology solutions for electric companies. Before coming to Siemens, van Welie held several positions at ESKOM, South Africa's

electric utility based in Johannesburg. Van Welie is a member of a number of industry groups, including the Executive Committee of the U.S. National Committee of CIGRE, the Member Representatives Committee of the North American Electric Reliability Corporation (NERC), the ISO/RTO Council, and the IEEE Power & Engineering Society. He is a recipient of 2017 Utility Variable-Generation Integration (UVIG) Achievement Award and, in 2016, was awarded the IEEE Power & Energy Society Leadership in Power Award.

*Hon. Mark Vannoy, Chair, Maine Public Utilities Commission* – Mark Vannoy was appointed Chairman of the Maine Public Utilities Commission in December 2014 by Governor Paul R. LePage. He had previously served as Commissioner being appointed in June 2012 and reappointed in May 2013. Prior to coming to the Commission he worked as an Associate Vice President in the infrastructure and civil practice group at Wright Pierce in Topsham, Maine. Before moving to Maine in 2000, he served as an Officer in the United States Navy, completing tours as a NROTC instructor at Cornell University, and a nuclear tour, as the Damage Control Assistant aboard CGN36 USS California. Commissioner Vannoy graduated from the United States Naval Academy in 1993 with a Bachelor of Science in Ocean Engineering. He completed his Masters of Engineering at Cornell University in 2000. His term expires in March 2019.

*Donald Ware, Chief Operating Officer, Pennichuck Water* – Donald Ware, a member of the New England Water Works Association since 1986, has been with Pennichuck Water for more than two decades. He is a Registered Professional Engineer in New Hampshire, Maine, and Massachusetts, and a Certified Grade 4 Treatment/Distribution Operator in NH, ME, and MA with 35+ years in the water industry. Ware holds a BSCE from Bucknell University and an MBA from Whittemore School, University of New Hampshire.

*John Weaver, Attorney, McLane Middleton* – John Frank Weaver is an attorney with McLane Middleton Professional Association, based in Woburn and Boston, Massachusetts. He has a diverse practice that focuses on land use, real estate, telecommunications, and emerging technologies, including artificial intelligence, self-driving vehicles, and drones. As an emerging technologies lawyer, John has advised a wide range of companies – from startups to international corporations – on regulatory and legal issues unique to those technologies, including data privacy concerns, regulations governing drones, internet of things infrastructure deployment, state legislation affecting self-driving cars, and the impact of autonomous devices and programs on user and employment agreements. Weaver is the author of *Robots Are People Too*, released by Praeger Publishing, which explores legal issues implicated by autonomous technology and artificial intelligence, and a contributing writer at *Slate* magazine, where his articles focus on similar issues. Weaver is also a sought after speaker on topics related to law and emerging technologies, and has been interviewed by *The Atlantic*, the *Washington Post*, and the *Boston Business Journal*, among other media outlets.

*Frederick Weston, Principal and China Programs Director, Regulatory Assistance Project* – Frederick Weston directs RAP's China Program. He advises central governmental and provincial decision-makers on power sector issues, among them governance and regulation; system operations; wholesale and retail pricing; end-use energy efficiency; and long-term planning, renewables, air quality management, and low-carbon policies, including emissions trading schemes and multi-pollutant strategies. Weston joined RAP in 1999 after eleven years as an economist and hearing officer with the Vermont Public Service Board, the state's utility regulator. His work stretched over a wide variety of matters, including the design and implementation of integrated least-cost plans, power purchases, rate-setting and rate design, competition in local telecommunications service, and the creation of *Efficiency Vermont*, the nation's first "energy efficiency utility." In the mid-1990s, he was co-chair of the National Association of Regulatory Utility Commissioners' (NARUC) staff subcommittee to the Committee on Energy Conservation (now Energy Resources and the Environment). He also served as co-chair of NARUC's Staff Subcommittee on Electric Industry Restructuring. Before joining the Public Service Board, Weston was an energy and economic consultant for clients in the U.S. and Middle East, and was employed with the American International Group in Saudi Arabia from 1981 to 1984. Weston earned his master's in law and diplomacy from the Fletcher School of Law and Diplomacy at Tufts University and his bachelor's from

Middlebury College. He received advanced intensive training in Arabic from the American University in Cairo.

*Kirk Westphal*, Associate, CDM Smith – Kirk Westphal has over 25 years of experience as an engineer and water planner. He is currently directing the development of the State Water Plan for Connecticut, and has also directed various aspects of state water plans in South Carolina and Oklahoma. Westphal focuses on water supply and river basin planning – finding an equitable balance between water uses, and evaluating economic and environmental value of alternative expenditures. He has helped mediate a water dispute between Native Americans and the State of Oklahoma, has developed integrated water resource plans across the United States, and has served as an advisor on flooding and water supply issues in the Middle East. Westphal has twice received awards from ASCE's Journal of Water Resource Planning and Management for progressive papers on drought management and multi-use water systems. He holds a B.S. from Boston University, and an M.S. from Tufts University.