



New England Conference of Public Utilities Commissioners
necpuc



72nd Annual Symposium

June 2-5, 2019

Hartford Marriott & Connecticut Convention Center • Hartford, Connecticut

NECPUC 72nd Annual Symposium

June 2-5, 2019

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PROGRAM FOR 72nd ANNUAL NECPUC SYMPOSIUM

Sunday, June 2, 2019

- 4:00 p.m. ISO-NE Budget Discussion *Marriott A, B*
- ISO-NE will present administrative and capital budget information to the state public utility commissions, consumer advocates, Attorneys General, other state officials and invited guests.
Robert Ludlow, VP, Chief Financial and Compliance Officer, ISO-NE
- 6:00 p.m. Pre-dinner Reception *Marriott Foyer*
Sponsored by Pierce Atwood LLP and Brown Rudnick LLP
- 7:00 p.m. Dinner *Marriott C, D, E*
- 8:30 p.m. Dessert Reception *Marriott Foyer*
Sponsored by the Nuclear Energy Institute, the National Association of Water Companies, and
Roach Hewitt

Monday, June 3, 2019

- 7:30 a.m. Continental Breakfast Buffet begins *Marriott C, D, E*
- 7:30 a.m. Telecom Breakout Breakfast *Capital Room*
- Come discuss various telecommunications issues with Commissioners, state staff, and telecommunications professionals.
- 9:00 a.m. Plenary Session *Ballroom A, Connecticut Convention Center**
- Welcome: *Hon. Michael Caron*, NECPUC President and Commissioner, Connecticut Public Utilities Regulatory Authority
- Wholesale Markets Panel
Wholesale Market Objectives, Then and Now
- In the 1990s, the most often cited state goals of the transition to competitive wholesale markets were: placing risks of business decisions on investors rather than consumers and meeting consumers' needs and preferences with lowest costs, while not diminishing environmental quality, compromising energy efficiency, or jeopardizing reliability. Wholesale markets were not designed to incent investment in new fuel supply infrastructure or in spare on-site fuel supply at generator facilities in case cold weather rolled in and stayed. Similarly, they were not designed to advance a state's no-or-low carbon energy requirements or environmental objectives. Three decades later, ISO New England and some states are increasingly relying on mechanisms outside of the wholesale market to satisfy energy security needs and various renewable and no-or-low carbon energy requirements, respectively. The panelists will consider the original objectives for wholesale markets, discuss the evolving market and regulatory landscape, and provide their views on what the objectives of the market should be today and into the future.

* The Connecticut Convention Center is connected to the Hartford Marriott and is a short walk from hotel conference rooms.

Moderator: *Sharon Reishus*, President, Reishus Consulting

Participants:

Hon. Kathryn Bailey, Commissioner, New Hampshire Public Utilities Commission

Hon. Katie Scharf Dykes, Commissioner, Connecticut Department of Energy & Environmental Protection

Hon. Matthew Nelson, Chairman, Massachusetts Department of Public Utilities

Hon. June Tierney, Commissioner, Vermont Department of Public Service

Hon. Nicholas Ucci, Deputy Commissioner of Energy, Rhode Island Office of Energy Resources

Hon. R. Bruce Williamson, Commissioner, Maine Public Utilities Commission

10:30 a.m. Break

11:00 a.m. Welcome to Hartford *Ballroom A, Connecticut Convention Center**
Hon. Luke Bronin, Mayor, City of Hartford, Connecticut

Fireside Chat: Resilience in Practice

Since entering the regulatory lexicon in recent years, resilience has come to mean different things to different stakeholders, depending on context and perspective. Our panelists will discuss concrete considerations for resilience-oriented projects and examples of pilots from across the country.

Moderator: *Hon. Michael Giaimo*, Commissioner, New Hampshire Public Utilities Commission

Participants:

Daniel McGahn, Chairman and Chief Executive Officer, American Superconductor

Eric Limpaecher, Group Leader, Energy Systems Group, Massachusetts Institute of Technology Lincoln Laboratory

12:15 p.m. Luncheon *Marriott C, D, E*

Hon. Michael Caron, NECPUC President and Commissioner, Connecticut Public Utilities Regulatory Authority

Hon. Ned Lamont, Governor, State of Connecticut

1:30 p.m. Concurrent Sessions

A. Telecom Panel *Capital Room*
Telecommunications Buildout: From Broadband to 5G, what every commission and community needs to know

From investments in rural broadband across many New England states to the 5G expansion that has already begun, investments in telecommunications infrastructure are a necessary and exciting part of today's innovation economy. This panel will discuss the issues associated with telecom buildout, especially as siting and pole attachment concerns pop up around the region. Who has jurisdiction? What issues are arising and what can be done about them? The panel will discuss the meat and potatoes of regulatory decision-making – the costs, benefits, and process issues associated with telecommunications buildout.

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Moderator: *Hon. Randall Davis*, Commissioner, Maine Public Utilities Commission

Participants:

Jackie McCarthy, Assistant Vice President – Regulatory Affairs, CTIA

Hon. Karen Charles Peterson, Commissioner, Massachusetts Department of Telecommunications and Cable

Jack McCoy, Chief Information Officer, Town of Manchester, Connecticut

Chuck Eves, Vice President of Electric Operations, Avangrid

Josh Broder, Chief Executive Officer, Tilson

B. Natural Gas Panel

Marriott A, B

The Future is Now: Natural Gas Safety in New England

Since the Merrimack Valley incident in September 2018, gas safety programs across the country have been under a microscope. This panel will focus on regulatory action taken since the incident, and on what actions can be taken to assure safety going forward. What models of gas safety programs are various states deploying? What best practices are out there, and how do they differ? The panel will discuss details such as Pipeline Safety Management Systems, operator qualifications, and quality assurance/quality control, and will explain how each can be used to help prevent natural gas incidents.

Moderator: *Shane Early*, General Counsel, Massachusetts Department of Public Utilities

Participants:

Karl Baker, Public Utilities Supervisor of Technical Analysis, Connecticut Public Utilities Regulatory Authority

Eric Eggleston, Manager, Gas Policy & Compliance, Eversource

Paul Roberti, Chief Counsel, Pipeline and Hazardous Materials Safety Administration

3:00 p.m. Break

3:15 p.m. Concurrent Sessions

A. Performance Incentive Mechanisms

Marriott A, B

Performance-based regulation offers regulators a number of tools to align utilities' business interests with the public interest. Included in the toolbox are performance incentive mechanisms (PIMs), which can be reasonable, and possibly necessary, to improve a utility's performance in certain areas by giving utilities a financial interest in advancing the public interest. This panel will reflect on experiences with PIMs, and other performance-based regulation tools. How can regulators determine when PIMs are appropriate? How can regulators and consumers be confident that incentives are actually driving better performance? What are the lessons learned about setting metrics, designing targets and baselines, and overcoming information asymmetry? How do other ratemaking tools complement PIMs?

Moderator: *Hon. Cecile Fraser*, Commissioner, Massachusetts Department of Public Utilities

Participants:

Hon. Abigail Anthony, Commissioner, Rhode Island Public Utilities Commission

Michael O'Boyle, Director of Electricity Policy, Energy Innovation

Hon. John Rhodes, Chair, New York Public Service Commission

D. Maurice Kreis, Consumer Advocate, New Hampshire Office of Consumer Advocate

B. Ethics CLE

Capital Room

Hon. Martin Honigberg, Chair, New Hampshire Public Utilities Commission
Linda Randell, Attorney & Governance/Regulation Consultant and Former Chair, American Bar Association Infrastructure and Regulated Industries Section

4:45 p.m. Break

*****Receptions & Dinner at the Connecticut Science Center, 250 Columbus Blvd.*****

6:15 p.m. Pre-dinner Reception
Sponsored by the Retail Energy Supply Association, Locke Lord, and Robinson & Cole

7:15 p.m. Dinner

8:30 p.m. Dessert Reception
Sponsored by the Northeast Gas Association

Tuesday, June 4, 2019

7:30 a.m. Continental Breakfast Buffet begins *Marriott C, D, E*

9:00 a.m. Plenary Session *Ballroom A, Connecticut Convention Center**
If Implemented Effectively: The Future of Storage

This past year has seen several milestones with respect to energy storage in our region – from a 20-MW bid of solar-plus-storage clearing the ISO-NE Forward Capacity Auction to utility investments in both residential and utility-scale storage. How is this technology being deployed and what are the costs and benefits of those types of deployments? How do utility and residential-scale storage interplay with state policy objectives and the operation of the grid? Going forward, how do we make the most of this malleable resource? Finally, are there alternative resources or structures that need to be in place that decisionmakers need to take into account before going “all in” for storage? This panel will consider all of these issues and more.

Moderator: *Hon. Marissa Gillett*, Chairman, Connecticut Public Utilities Regulatory Authority

Participants:

Jeffrey Bishop, Chief Executive Officer, Key Capture Energy
Mike Calviou, Senior Vice President, Strategy & Regulation, National Grid
Anne Hoskins, Chief Policy Officer, SunRun
Lon Huber, Director, Navigant
Christopher Parent, Director of Market Development, ISO New England

10:15 a.m. Break

10:30 a.m. Keynote Address *Ballroom A, Connecticut Convention Center**
Hon. Bernard L. McNamee, Commissioner, Federal Energy Regulatory Commission

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11:00 a.m. Plenary Panel *Ballroom A, Connecticut Convention Center**
Shark Tank! Innovation Extravaganza

Entrepreneurs and innovators will have the opportunity to present the latest and greatest in technological and programmatic advancements. Come learn about exciting new ideas and hear real-time feedback from a panel of “sharks” with exceptional regulatory expertise. At the end of the session, the audience will have the opportunity to vote on its favorite presentations. *Presenter information starts on page 7.*

Moderator: *Hon. Michael Caron*, NECPUC President and Commissioner, Connecticut Public Utilities Regulatory Authority

Sharks:

Hon. Sarah Hofmann, Commissioner, Vermont Public Utility Commission

Hon. Matthew Nelson, Chairman, Massachusetts Department of Public Utilities

Joseph Rosenthal, Principal Attorney, State of Connecticut Office of Consumer Counsel

Jennifer Schilling, Director, Grid Modernization, Eversource

Galen Nelson, Senior Director Innovation & Industry Support, Massachusetts Clean Energy Center

12:30 p.m. Luncheon *Marriott C, D, E*
Hon. Michael Caron, NECPUC President and Commissioner, Connecticut Public Utilities Regulatory Authority
Jennifer Murphy, Director of Energy Policy and Senior Counsel, National Association of Regulatory Utility Commissioners
Invitation to 2020 NECPUC Symposium, *Hon. Anthony Roisman*, Chair, Vermont Public Utility Commission
Presentation of George Dunn Award to Staff by *Hon. Michael Caron*, NECPUC President and Commissioner, Connecticut Public Utilities Regulatory Authority

1:45 p.m. Concurrent Sessions

A. Water Panel *Capital Room*
Water in the Public Trust: The Role of Utilities and Regulators

As concerns about water quality, availability, and prices continue to rise, so do issues of public trust in the multiple institutions charged with overseeing the sector. In this context, both utilities and regulators must earn trust. The commissions are entrusted with a unique and complementary jurisdictional role to protect the public interest. The value of regulation lies in its independence and capacity to hold utilities accountable for prudent performance in achieving policy goals, perhaps especially to ensure that rates are equitable as well as efficient. These issues have manifested recently with the idea of invoking a public trust doctrine for water resources and even for water infrastructure, which has substantial implications for rights and responsibilities in the sector. This roundtable will explore wide-ranging issues related to public trust, including commission jurisdiction and authority, industry structure and organization, public communication and engagement, and access to affordable water service.

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Moderator: *Hon. John “Jack” Betkoski III*, Vice Chairman, Connecticut Public Utilities Regulatory Authority

Participants:

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

Susan Suhanovsky, President, Torrington Water

Alicea Charamut, Executive Director, Rivers Alliance of Connecticut

B. Research & Regulation

Marriott A, B

Making Research Relevant: Academic Research and Economic Regulation

New England is known for its academic prowess. With research excellence spanning from Connecticut to Maine, how can research inform regulatory decision-making, and how might regulatory questions make their way to the academic arena? This panel will put a spotlight on some of the hottest research in the region and will engage commissioners and academics in a forward-looking conversation regarding their work.

Moderator: *Hon. Marion Gold*, Commissioner, Rhode Island Public Utilities Commission

Participants:

Emmanouil Anagnostou, Professor, Civil and Environmental Engineering, University of Connecticut

Kenneth Gillingham, Associate Professor of Economics, Yale University

Christopher Knittel, George P. Shultz Professor/Professor of Applied Economics, Massachusetts Institute of Technology

Hon. R. Bruce Williamson, Commissioner, Maine Public Utilities Commission

3:30 p.m.

Academic Poster Session & Reception Sponsored by
ISO New England and the Connecticut Power and Energy Society

Marriott Foyer

6:30 p.m.

Non-public dinner for state officials and NESCOE

Wednesday, June 5, 2019

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

Shark Tank Innovation Extravaganza

Companies & Presenters

Camberline Technologies, presented by Melissa Chan, Co-Founder and CEO

Camberline Technologies enables smart metering functions for any meter. It bridges today's infrastructure to tomorrow's AMI deployment. Its technology is flexible, scalable, and can be deployed overnight. The alternative, standard smart meters, can take years to deploy and integrate with legacy systems and require large up-front investments.

Melissa Chan is CEO and co-founder of Camberline Technologies. She knows the challenges of planning and implementing a long and expensive smart meter deployment. She's worked with many electric utilities on their business case, procurement, change management, and evaluation of smart grid technology. Before founding Camberline Technologies, Chan was an emerging energy technology consultant with Navigant, and briefly with Modern Grid Partners. She holds a PhD in Engineering and Public Policy from Carnegie Mellon, and did her postdoctoral research with the Energy Technology Innovation Policy group at Harvard University's Kennedy School of Government.

Nature & People First, presented by Denis Payre, Co-Founder & President

Nature & People First (N&PF) has designed a 3 to 15 MW system consisting of an upper pond, lower pond, a penstock connecting the two ponds, and a powerhouse. Water is pumped to the upper pond when power is cheap and run down the penstock and through the powerhouse when electricity is needed. The closed-loop design makes it easy to permit. The relatively small output is ideal for interconnection at the distribution level where it can help utilities a) eliminate costs for expensive upgrades and b) by providing voltage support and thereby reducing losses. The Technology already matches battery installed cost on a \$/kWh stored basis. N&PF is developing a 7 MW project on the island of Martinique which is in advanced stage of design and development. The off-taker is EDF, the world's second largest power utility. Financing has been committed for this project as well as the development of two others from Meridiam, a firm that has over \$6 billion in assets. N&PF is currently pursuing over a dozen Low Impact Community Scale PSH projects in the US including several in New England.

Nature & People First America LLC (N&PF) is led by Denis Payre, a repeat entrepreneur who has built two global, fast growing and innovative companies in complex industries: software company Business Objects, now a global division of SAP; and e-logistic company Kiala, now a global division of UPS. He was involved in the highly successful Nasdaq listing of Business Objects and together with his partner, was named "Best Entrepreneur" in Business Week in 1996, next to Steve Jobs and Steven Spielberg. Kiala has received several innovation awards. Both of his previous companies have obtained patents that have been monetized. Payre developed N&PF's PSH technology and patented innovations.

Stash Energy, Jordan Kennie, CEO and Co-founder

Stash Energy has developed the only air-source heat pump with built-in thermal storage using phase change material (PCM). The Stash M1 Comfort System pairs the efficiency of a heat pump with the peak-shifting power of storage. Through the API in our thermostat, utilities (or their aggregation platform) will have the ability to set the storage cycle. This innovative heating and cooling solution will work with the electric utility's grid management platform to deliver an end-to-end residential heating and cooling solution.

Jordan Kennie, Co-founder and CEO of Stash Energy Inc., leads the business development, corporate/business strategy and financial management aspects of the company. Kennie received his Bachelor of Science in Electrical Engineering at the University of New Brunswick (UNB) in 2016 and his Master of Engineering in Technology Management and Entrepreneurship (TME) in 2017. Jordan also participated in The Canadian Clean Technology Accelerator (CTA) in Denver CO, Energia Ventures Incubator Program, and the Summer Institute Accelerator Program at UNB, and in 2017 received the Startup Canada Young Entrepreneur Award.

Open Energy Efficiency, presented by Ethan Goldman, Director of Customer Solutions

Open Energy Efficiency (OpenEE) has built the Recurve platform, which enables market actors to get paid for deploying demand-side management solutions that deliver time- and location-specific grid services. This platform is built on open and transparent quantification of changes in energy consumption. While it sounds simple, this standard and transparent measurement of load-modifying “resource curves” can enable markets for energy efficiency and other distributed resources. OpenEE will share examples of how new policy and practices that employ meter-based quantification can transform the way that DERS are procured and financed. The audience will come away with concrete actions that they can take today to achieve this vision for the future.

Ethan Goldman is Director of Customer Solutions at Open Energy Efficiency. He brings years of experience applying data science, metering, and sensor networking to solve energy and climate challenges. Ethan previously worked as Energy Informatics Architect at Vermont Energy Investment Corporation (VEIC), where he designed and developed software to automatically process data from smart meters and connected devices in order to identify and quantify energy savings. At OpenEE, Goldman brings his first-hand knowledge of utility program measurement and verification techniques and experience creating data analytics software systems to help craft solutions that enable customers to successfully navigate emerging distributed energy markets and meet clean energy goals. Goldman earned an MS from Carnegie Mellon University, where he researched Non-Intrusive Load Monitoring (NILM).

ThermoLift, presented by Mark Austin, Strategic Advisor

ThermoLift has developed a novel, high-efficiency gas-powered heat pump (the Thermal Compression Heat Pump or “TCHP”), capable of providing both heating and cooling from the same device, at constant capacity, even in cold climates and partial load conditions. ThermoLift’s TCHP not only offers significant energy savings and carbon emission reduction with zero refrigerants for the end user, but can also provide utility and system benefits including “non-pipe solutions” without new infrastructure costs for capacity constraints, decarbonization, demand response and load balancing.

Mark Austin is a Strategic Advisor with ThermoLift, a pioneer in energy efficiency for building heating and cooling with its Thermal Compression Heat Pump, ranked #1 by DOE listing of innovative HVAC technologies. Austin has a broad background in energy and cleantech, including as a Venture Partner for Bright Capital, and as a long-standing Entrepreneur-in-Resident with NYSERDA (the New York State Energy Research and Development Authority). As Managing Director of Chandler Reed, he provided strategy and advisory services to entrepreneurs, funds, and CEOs of public and private technology-based companies, and served as an advisor to UNDP’s Sustainable Energy & Environment Division. Earlier, as a serial entrepreneur, he founded or co-founded companies in electro-optics, medical laboratory devices, and advanced materials, received multiple international design awards, and has patents issued in 30 countries. Austin has mentored entrepreneurs in Africa, and spoken at conferences in the US, Europe, Asia and Africa on energy, strategy and entrepreneurship.

Electrical Grid Monitoring, presented by James Lavin, Board Member

Electric Grid Monitoring (EGM) has a completely integrated hardware and big data analytics solution that provides real time actionable information on the state of an entire electrical grid from high voltage distribution through distribution and can extend behind the meter into low voltage in building monitoring. Capabilities of the system include real time dynamic line rating, identification of line breaks and intrusion on lines localized to 39 meters, corona discharge detection, transformer monitoring and detailed analysis of all aspects of the electric waveform at up to 25 kHz sampling rates where the system has identified problems. It operates on its own highly secure mesh network allowing sensors to locally communicate as well as communicate to the server. Interfaces with the electrical system control can be automatic or Information only and are via an interface with the server located at the utility only. In addition to providing the data necessary for safe operation of DER it enables grids to identify all the information needed to determine where DER can be properly connected to the grid.

James Lavin has served on the board of directors of Electrical Grid Monitoring, Ltd since 2014. In addition to EGM he holds senior advisory positions at Energetico whose breakthrough technology for desiccation can save 50% on large building HVAC costs, and Tubz, LLC a lithium metal/sulfur battery startup which is less expensive, safer, more efficient and has twice the energy density of today’s batteries. He is an active member of NY-BEST. His primary focus is on direct air capture at large scale where has been helping leading researchers in the carbon capture space since 2015. Decarbonizing electrical grids is a critical first step toward slowing carbon dioxide emissions but is only a first step.

Lavin has been the CEO and sole founder of multiple real tech companies valued at over \$1 Bn, and has been critical in other startups worth over \$500MM. He has also been energy czar in charge of all energy purchasing and energy efficiency improvements for one of New York City’s largest real estate portfolios. He earned his BA from Harvard College in Biochemistry and an MBA from Stanford University.

SPEAKER APPRECIATION



OPERATION FUEL
WE ADVOCATE. WE COLLABORATE. WE SERVE.

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 ***Operation Fuel***, which partners with local government and community-based organizations throughout Connecticut to ensure that families and individuals in need have access to year-round energy assistance.

GENERAL INFORMATION

Information: If you have any questions about the Symposium, call Rachel Goldwasser, NECPUC Executive Director, at 603-856-8690.

Suggested Attire: Business Casual

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

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, Maine, and Vermont (all for 6.5 hours general, 1 hour ethics). NH is now a self-reporting CLE state, and Connecticut accepts CLEs approved by other MCLE states. Attorneys should only claim credit commensurate with the extent of their participation in the Symposium.

Taping/Video Policy: Unless you receive prior approval from NECPUC, only credentialed members of the press are allowed to audio- or videotape NECPUC sessions. If you wish to tape or record any portion of the NECPUC meeting, please contact Rachel Goldwasser at rgoldwasser@necpuc.org or 603-856-8690.



Join NECPUC in Vermont!
May 30 - June 3, 2020
Stowe Mountain Lodge
Stowe, Vermont

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SPEAKER BIOGRAPHIES

Dr. Emmanouil Anagnostou, Professor, Civil and Environmental Engineering, University of Connecticut – Dr. Emmanouil N. Anagnostou is Board of Trustees Distinguished Professor of Civil and Environmental Engineering and the Eversource Energy Endowed Chair in Environmental Engineering at the University of Connecticut. He is the founding Director of the Eversource Energy Center and Applied Research Director of the Connecticut Institute for Resilience and Climate Adaptation. Through a series of groundbreaking discoveries in the field of hydrometeorology, Prof. Anagnostou has distinguished himself as a leading authority with remarkable insights into the complex physical processes that shape the hydrological cycle and enable the more accurate and timely prediction of severe weather and flash floods. His scholarship record includes over one hundred seventy peer reviewed archival publications, eight book chapters, and more than 40 invited and keynote talks. His work is currently supported by twelve active federal and industry grants totaling over 13 million USDs. He is PI of the \$4.4M NSF PIRE grant that investigates means to improve water and food security in Ethiopia and is the recipient of several national- and international-scale awards. He serves as editor-in-chief of the Journal of Hydrology, conference chair and convener in numerous international conferences, and advisor to national and international scientific organizations. His scientific research has been translated to an Outage Prediction Model used by utility providers throughout New England to reduce the impact of severe weather events on the power grid system serving millions of people who live and work in the area.

Hon. Abigail Anthony, Commissioner, Rhode Island Public Utilities Commission – Abigail Anthony was appointed by Governor Raimondo to the Rhode Island Public Utilities Commission in June, 2017. Commissioner Anthony previously was the director of Acadia Center's Grid Modernization and Utility Reform Initiative, and the organization's Rhode Island director. Commissioner Anthony was appointed by Governors Carcieri and Chafee to the Rhode Island Energy Efficiency and Resource Management Council, where she served from 2010 to 2017 overseeing the implementation of the state's energy efficiency programs and policies. Commissioner Anthony earned a PhD in Environmental and Natural Resource Economics from the University of Rhode Island. She received her MA and BA in economics from the University of Montana. Abigail is a lifelong resident of Jamestown, Rhode Island, where she lives with her husband and two young boys.

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.

Karl Baker, Public Utilities Supervisor of Technical Analysis, Connecticut Public Utilities Regulatory Authority – Karl Baker is the Public Utilities Supervisor of Technical Analysis for the Gas Pipeline Safety/Call Before You Dig Unit at the Public Utilities Regulatory Authority (PURA). Mr. Baker has been with PURA since 1993 when he started as an Engineer Intern in the Gas Pipeline Safety Unit. He has been promoted through the engineering series to his current position that he assumed on July 1, 2009. Mr. Baker is a member of the National Association of Pipeline Safety Representatives (NAPSR). Mr. Baker also serves as Chairman of the NAPSR Grant Allocation and Strategic Planning Committee and is the NAPSR Webmaster. In addition, Mr.

Baker was the Chairman of the NAPSIR Service Line Periodic Inspection Task Group and is currently assisting the United States Department of Transportation, Pipeline and Hazardous Materials Safety Administration (PHMSA) with excavation damage prevention initiatives. Mr. Baker received his B.S. in Mechanical Engineering from Rensselaer Polytechnic Institute in 1993 and currently resides in South Windsor, CT.

Janice Beecher, Director, Institute of Public Utilities Policy Research & Education, Michigan State University – Dr. 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 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.

Hon. Jack Betkoski, Vice Chair, Connecticut Public Utilities Regulatory Authority – 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 Dannel P. Malloy and elected as Vice Chairman. He also serves as President of the National Association of Regulatory Utility Commissioners (NARUC) and Chairman of the Connecticut Water Planning Council. He was also a member of the EPA National Drinking Water Advisory Council, serving on its Water Security Working Group and the American Water Works Association Research Foundation's Public Council on Drinking Water Research. 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.

Jeffrey Bishop, Chief Executive Officer, Key Capture Energy – Jeff Bishop is the co-founder and CEO of Key Capture Energy, a utility-scale battery storage development company with a 20 MW project in-service in NYISO and several other projects in construction. Previously, Bishop worked at Brookfield Renewables and EDP Renewables, where among other areas, he oversaw market development that led to contracts for nearly a billion dollars of new wind projects. Bishop has been a board member of renewable advocacy groups such as Renewable Energy Northeast, the Alliance for Clean Energy New York, and the Maine Renewable Energy Association. Bishop has an MBA from the University of Chicago and a BS in Electrical and Computer Engineering from Rice University.

Josh Broder, Chief Executive Officer, Tilson – Joshua Broder serves as CEO of Tilson, which is on a mission to build America's information infrastructure. Tilson has 550 employees and 23 national offices deploying fiber and wireless networks for grid modernization, 4G & 5G cellular, and fiber broadband, and consulting with local, state and federal agencies on infrastructure policy, planning, regulation. Broder is also the founder of Tilson's public utility affiliate, SQF, LLC which owns and leases 5G infrastructure like smart city poles nationwide. Broder cut his teeth in leadership as an Army Signal Officer on missions in Europe, the Middle East, and Central Asia, where he was awarded the Bronze Star for service in Afghanistan designing, building and operating the communications network for US forces. Broder holds a bachelor's degree from Middlebury

College and is a graduate of AT&T's Operation Hand Salute at JFK University with a certificate in entrepreneurial studies.

Hon. Luke Bronin, Mayor, City of Hartford, Connecticut – Luke Bronin is the 67th mayor of the City of Hartford. He was sworn in on January 1, 2016. Mayor Bronin is a husband, a father, a veteran, and an attorney, and he is committed to building a stronger Hartford for all of Hartford's residents. Mayor Bronin has had the opportunity to serve in senior positions in both federal and state government. In 2013, he was appointed by Connecticut Governor Dannel P. Malloy to serve as General Counsel. In his position as the governor's chief lawyer, Bronin partnered with legislators and state agency officials to advance the Governor's agenda, and he was deeply involved in developing policies to combat veterans' homelessness, expand economic opportunities, reform our criminal justice system, and protect our environment. Prior to his role in Governor Malloy's office, he served as the Deputy Assistant Secretary for Terrorist Financing and Financial Crimes at the U.S. Department of the Treasury in Washington, D.C. In that role, he helped lead the federal government's efforts to isolate and disrupt international terrorist groups, and advanced U.S. national security and foreign policy interests. Previously, he served as the Senior Advisor to the Deputy Secretary of the U.S. Treasury, as an international affairs fellow with the Council on Foreign Relations, and as Chief of Staff to the President of Property and Casualty Operations at the Hartford Financial Services Group, one of the capital city's largest employers. He also served as an officer in the U.S. Navy Reserve and was a member of the military's anti-corruption task force during his deployment to Afghanistan from September 2010 to April 2011. Most recently, Bronin worked as a partner at the law firm Hinckley Allen. Prior to his election, Bronin proudly served on the boards of the Hartford Public Library and the Amistad Center for Arts and Culture. Bronin earned his B.A. and J.D. from Yale University and his M.A. from Oxford University, where he studied as a Rhodes Scholar. He and his wife Sara live in Hartford with their three young kids.

Mike Calviou, Senior Vice President, Strategy & Regulation, National Grid USA – Mike Calviou is Senior Vice President, Strategy & Regulation, for National Grid USA. Calviou is responsible for developing the business, regulatory and customer strategy for National Grid's US business and ensuring we have energy policy positions consistent with that strategy. He is also responsible for the regulatory and pricing functions of National Grid across all of National Grid's U.S. jurisdictions and operating companies. Calviou has spent over 25 years working for National Grid plc in various capacities in the U.S. and U.K., including senior leadership positions in Customer Service, Asset Management/Engineering, and Strategy. Prior to his current role, he previously led all of the customer and commercial activities as well as the strategic design for Great Britain's (GB) electricity and gas transmission networks. This included managing the regulatory and contractual framework that governed connections to the electricity and gas transmission systems; responsibility for all major policy decisions; and the development of strategy in relation to the market design and industry frameworks in the U.K. and Europe. He also chaired the Executive Committee for National Grid's U.K. System Operator function (covering both electricity and gas) for Great Britain. Calviou has a degree in Theoretical Physics from Cambridge University and resides in Natick, Massachusetts, with his wife and son.

Hon. Michael Caron, NECPUC President and Commissioner, Connecticut Public Utilities Regulatory Authority – Michael Caron is a Utility Commissioner of the Connecticut Public Utilities Regulatory Authority (PURA). Governor Dannel P. Malloy first nominated Caron to serve on the three-member regulatory authority on July 12, 2012. His appointment was confirmed by both the House of Representatives and State Senate in the 2013 session of the CT General Assembly and extends to 2017. He was reappointed by Governor Malloy in 2018 for a term that concludes in 2021. Commissioner Caron has served as the Authority's designee to the Connecticut Siting Council and is PURA's representative to the Connecticut Economic Resource Council (CERC). Commissioner Caron is Treasurer of the New England Council of Public Utility Commissioners (NECPUC) and is a past member of the Electricity Committee for the National Association of Regulatory Utility Commissioners (NARUC) and was appointed last year to the NARUC Telecommunications Task Force by past President Commissioner Lisa Edgar (FL). He currently serves on the Gas Committee and the Critical Infrastructure Committee. Prior to his appointment, Caron was the Director of Public Affairs – Global Sites for Pfizer, Inc. and an associate lobbyist for the lobbying and business development firm Camilliere, Cloud & Kennedy. Caron previously served as a State Representative from the 44th District for nine terms (1991-2009) and Assistant

Republican Leader for five terms (1999-2009). During his time as a member of the General Assembly, Caron served on the Finance, Revenue & Bonding Committee, as Ranking Member of a number of legislative committees including the Transportation Bonding Sub-Committee. He was a member of the Energy and Technology Committee and was an ex officio member of the CT State Bond Commission. Caron received his B.A. in History and a B.S. in Finance from Central Connecticut State University. He lives in West Hartford, Connecticut, with his wife Maureen Magnan.

Alicea Charamut, Executive Director, Rivers Alliance of Connecticut – Alicea Charamut is the Executive Director of Rivers Alliance of Connecticut. In addition, she is a volunteer for Trout Unlimited as a board member of her local chapter, Farmington Valley, and is formerly the Chair of the Connecticut Council. She is the Secretary of the Fisheries Advisory Council, a member of the Connecticut Council on Environmental Quality, on the Advisory Board of the Connecticut Institute of Water Resources and Co-Chair of the Water Planning Council Advisory Group. Charamut holds a B.S. in Biological Sciences from the University of Connecticut.

Hon. Randall Davis, Commissioner, Maine Public Utilities Commission – Randy Davis was appointed by Governor Paul R. LePage to serve on the Maine Public Utilities Commission in September 2017. Prior to his December 2017 arrival at the Commission, he worked as the Area Manager for Energy at Sappi North America's Somerset Mill in Skowhegan, where he has worked since starting with the company in 1978. During his career at Sappi, he has overseen multiple aspects of the manufacturing process including roles in systems engineering, operations, maintenance, production planning, and supply chain. Prior to his tenure at Sappi, Commissioner Davis was systems engineer for Exxon Chemical working in New Jersey, Louisiana, Texas, and England until his decision to return to Maine. Commissioner Davis graduated from the University of Maine in 1976 with a Bachelor of Science in Chemical Engineering. His term expires in March 2023.

Katie Scharf Dykes, Commissioner, Connecticut Department of Energy & Environmental Protection (DEEP) – Commissioner Dykes was nominated by Governor Ned Lamont to serve as the Commissioner of DEEP, and was confirmed on February 20, 2019. She previously served as Chair of the Connecticut Public Utilities Regulatory Authority (PURA) from 2015-2018, and as Deputy Commissioner for Energy at Connecticut DEEP from 2012-2015. Commissioner Dykes also served as the Chair of the Board of Directors of the Regional Greenhouse Gas Initiative, Inc. (RGGI) from 2014 to 2017. RGGI is a multi-state effort focused on reducing carbon emissions from electric generating facilities. Commissioner Dykes joined CT DEEP in March 2012 after prior service as Deputy General Counsel for the White House Council on Environmental Quality and as a Legal Advisor to the General Counsel for the U.S. Department of Energy. She is a graduate of Yale College and the Yale Law School.

Shane Early, General Counsel, Massachusetts Department of Public Utilities – As the General Counsel at the Massachusetts Department of Public Utilities, Shane Early oversees a wide range of utility matters and other issues. He manages over 30 attorneys and supervises legislative matters for the DPU. Additionally, he oversees agency intervention at federal and state agencies on issues of interest to the DPU. Prior to becoming General Counsel, Early was a hearing officer at the DPU and, before joining the DPU, Shane was in the litigation department at Nutter, McClennen, & Fish in Boston and served as an assistant corporation counsel for the City of Boston. Early is a graduate of Trinity College in Hartford, CT and UConn Law.

Eric Eggleston, Manager, Gas Policy & Compliance, Eversource – Eric Eggleston is employed by Eversource Energy as the Manager of Policy and Compliance for its gas distribution business, which encompasses the Yankee Gas Services Company and NSTAR Gas Company. His current duties include evaluating new federal and state regulations as well as industry trends to develop policies, procedures and standards to implement, investigating material and equipment failures, and managing the QA/QC department's enforcement of Eversource's standards. His duties also include developing and maintaining the review schedule for policies, procedures and standards. Eggleston earned a Bachelor of Science degree in Mechanical Engineering from Virginia Tech in 2002. In 2012, Eggleston earned a Juris Doctor from the University of Connecticut School of Law. He has been licensed to practice law in the state of Connecticut since 2013. He started his career at

Westinghouse Electric Co. in 2002 and held a series of successively responsible positions in the Nuclear Engineering Services business, including reactor internals and fuel design and analysis, project management, and technical management. He joined Eversource Energy in 2017 in his current role.

Chuck Eves, Vice President of Electric Operations, Avangrid – Charles Eves, Jr is the Vice President of Electric Operations for The United Illuminating Company (UI), Central Maine Power Company (CMP), New York State Electric and Gas (NYSEG), and Rochester Gas and Electric Corporation (RGE) which subsidiaries of the parent company Avangrid located in Orange, Connecticut. In this role, Eves leads 1850 employees throughout various departments such as Line, Substation, Underground, Metering, Control Center, Operations Engineering, Customer Field Services, and Distribution Engineering. Eves has 30 years of experience at The United Illuminating and has held various roles within the company including Director of Engineering and Business Unit Information Technology Manager. He has also served as Chair for various industry groups, such as, Association of Edison Illuminating Power Apparatus Committee and EPRI Power Delivery and Utilization Sector Executive Leadership Team. Eves holds a Bachelor's in Electrical Engineering from Villanova University, a Master's in Electrical Engineering from Polytechnic Institute, and a Master's in Management of Technology also from Polytechnic Institute. He and his wife, Kari, have 3 children in reside in Wallingford, Connecticut.

Hon. Cecile Fraser, Commissioner, Massachusetts Department of Public Utilities -- Cecile M. Fraser was appointed as a Commissioner to the Department of Public Utilities in June of 2017. Prior to her appointment, Commissioner Fraser served with the Department as counsel in the Division of Regional and Federal Affairs and the Consumer Division. She is an attorney with over a decade of experience in the energy and utilities industry. Prior to joining the Department, Commissioner Fraser worked in private law practice and as an in-house counsel engaged in a range of matters involving utility rates and regulation, infrastructure siting, consumer service issues and related activities. As counsel with the Department, Commissioner Fraser has worked on issues involving New England's wholesale electric markets and transmission system, as well as consumer issues. She received a Bachelor of Arts degree in Political Science from Fordham University and her J.D. from Rutgers University School of Law-Camden.

Hon. Michael Giaimo, Commissioner, New Hampshire Public Utilities Commission – Michael Giaimo is a Commissioner with the New Hampshire Public Utilities Commission (PUC). He joined the PUC in August 2017. Before joining the PUC, Commissioner Giaimo worked in the External Affairs Department for ISO New England (ISO). While there he supported the ISO's outreach plans for regional system planning, wholesale electricity markets, and power system emergencies. During his decade-long tenure at the ISO, Commissioner Giaimo managed relationships with legislators, regulators, and policymakers, and at one time or another was ISO's primary contact in Maine, Massachusetts, New Hampshire, and Vermont. In his role with the ISO, he participated in legislative and regulatory proceedings throughout the region and testified before state legislative committees. Prior to joining the ISO in 2007, Commissioner Giaimo spent 8 years as Vice President responsible for energy and environmental affairs for the Business & Industry Association of New Hampshire. Commissioner Giaimo is a graduate of the University of Massachusetts, Amherst (BA, History) and Suffolk University Law School (JD).

Kenneth Gillingham, Associate Professor of Economics, Yale University – Kenneth Gillingham is an Associate Professor at Yale University, with a primary appointment in the School of Forestry & Environmental Studies and secondary appointments in the Department of Economics and School of Management. In 2015-2016 he served as the Senior Economist for Energy and the Environment at the White House Council of Economic Advisers. He is an energy economist who has published widely on consumer decisions and policy in the energy sector. His work focuses on the adoption of new energy technologies, energy efficiency, and transportation energy use. He is on the editorial boards at the Energy Journal and Energy Efficiency, and his research has been funded by National Science Foundation, US Department of Energy, and US Environmental Protection Agency, as well as several foundations. He was a Fulbright Fellow in New Zealand and has also worked at Resources for the Future, the California Air Resources Board, and Pacific Northwest National Laboratory. He received a Ph.D. in Management Science & Engineering and Economics, as well as M.S. degrees in Statistics and Management

Science & Engineering from Stanford University, and an A.B. in Economics and Environmental Studies from Dartmouth College.

Hon. Marissa Gillett, Chairman, Connecticut Public Utilities Regulatory Authority – Marissa Paslick Gillett is Chairman of Connecticut's Public Utilities Regulatory Authority (PURA). Governor Ned Lamont nominated Chairman Gillett to serve on the three-member regulatory authority on April 26, 2019. Prior to her appointment, Chairman Gillett was the Vice President of External Relations for the Energy Storage Association – the national trade association representing the energy storage industry. In that role, Chairman Gillett served on the association's executive team contributing to the organization's overall strategic vision and direction. From 2011 to 2018, Chairman Gillett worked at the Maryland Public Service Commission, an independent agency within the Maryland state government that regulates public utilities, where she most recently served as the senior advisor to the chairman. Her duties included a number of matters on energy issues in the state, such as advising the agency's chairman and other commissioners on technical, legal and policy matters related to offshore wind procurement, statewide energy efficiency programs, advanced metering infrastructure, grid reliability issues and electric vehicles. Chairman Gillett received a Bachelor of Science in Bioengineering from Clemson University in Clemson, South Carolina, and a Juris Doctor from the University of Baltimore School of Law in Baltimore, Maryland.

Hon. Marion Gold, Commissioner, Rhode Island Public Utilities Commission – Marion Gold was appointed to the RI Public Utilities Commission by Governor Gina Raimondo in June 2016. Previously, Commissioner Gold served for four years as Commissioner of the Rhode Island Office of Energy Resources (OER), the lead energy policy office for the State of Rhode Island. Prior to joining the OER, she was the Director of the Outreach Center at the University of Rhode Island where she established the URI Partnership for Energy and directed extension programs in energy, environmental horticulture, and urban agriculture. She has served on the URI President's Council for Sustainability, the RI Energy Efficiency and Resource Management Council, the Board of the National Association of State Energy Offices and on the Department of Energy's State Energy Advisory Board. Commissioner Gold holds a B.S. in Natural Resource Science and Policy from the University of Michigan, a M.S. in Environmental Economics from Michigan State University, and a PhD. in Environmental Sciences from the University of Rhode Island.

Hon. Sarah Hofmann, Commissioner, Vermont Public Utility Commission – 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 Franklin Pierce School of Law. She resides in Montpelier, Vermont.

Hon. Martin Honigberg, Chair, New Hampshire Public Utilities Commission – Martin 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 11 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.

Anne Hoskins, Chief Policy Officer, SunRun – Anne Hoskins serves as Chief Policy Officer of Sunrun, the largest dedicated residential solar and storage company in the United States. She leads Sunrun's policy efforts to expand consumer access to solar energy and deploy local solar energy that modernizes the grid and benefits all grid users. Hoskins previously served as a Commissioner on the Maryland Public Service Commission where she was a member of the National Association of Regulatory Utility Commissioners (NARUC) Board of Directors, Chair of the NARUC International Relations Committee and a board member of the Organization of PJM States (OPSI). Hoskins also led federal and state advocacy for Public Service Enterprise Group, and served as a Visiting Research Scholar and Instructor at Princeton University, a regulatory attorney at Verizon Wireless and McCarter and English and as a policy advisor to New Jersey Governor Thomas Kean. She is a graduate of Harvard Law School, the Woodrow Wilson School of Public and International Affairs at Princeton, and Cornell University.

Lon Huber, Director, Navigant – Lon Huber leads Navigant's North American retail regulatory offering. In this capacity, Huber provides expert witness testimony, proceeding strategy, and policy solutions on behalf of clients across the energy sector landscape. Huber has received numerous awards for his creative solutions to the industry's most pressing issues including the top honor from the Energy Storage Association and Utility Dive's Innovator of the Year for 2018. Specifically, Huber pushes advances in DER program structures, rate design, energy storage, and RPS modernization. In 2017 he created the Clean Peak Standard, a policy being considered or implemented in several states. He is frequently cited in trade press and speaks regularly at conferences across the country. With over 10 years in the energy industry, his experience spans public and private sectors, as well as academia. Huber holds an MBA from University of Arizona and is a regular instructor at FRI's Advanced Rates Seminar at the University of Washington.

Christopher Knittel, George P. Shultz Professor, Massachusetts Institute of Technology – Christopher Knittel is the George P. Shultz Professor and a Professor of Applied Economics at the MIT Sloan School of Management. Prior to MIT Sloan, Knittel taught at the University of California, Davis, and at Boston University. His research focuses on industrial organization, environmental economics, and applied econometrics. Knittel is an associate editor of *The American Economic Journal—Economic Policy*, *The Journal of Industrial Economics*, and the *Journal of Energy Markets*. His research has appeared in *The American Economic Review*, *The Review of Economics and Statistics*, *The Journal of Industrial Economics*, *The Energy Journal*, and other academic journals. He also is a Research Associate at the National Bureau of Economic Research in the Productivity, Industrial Organization, and Energy and Environmental Economics groups. Knittel holds a BA in economics and political science from California State University, Stanislaus; an MA in economics from the University of California, Davis; and a PhD in economics from the University of California, Berkeley.

D. Maurice Kreis, Consumer Advocate, New Hampshire Office of Consumer Advocate – D. Maurice ("Don") Kreis has served as New Hampshire's Consumer Advocate since 2016. He and his staff of four are tasked with representing the interests of residential utility customers at the New Hampshire PUC and elsewhere. Kreis has previously served as general counsel to the New Hampshire PUC, as a hearing officer with the Vermont PUC, and as associate director of the Institute for Energy and the Environment at Vermont Law School. He has also served clerkships with the federal district court in Portland and with the state supreme courts of Maine and Vermont. Prior to law school, Kreis spent a decade as a journalist with Associated Press and Maine Times.

Hon. Ned Lamont, Governor, State of Connecticut – Edward Miner "Ned" Lamont, Jr. was sworn into office on January 9, 2019 as the 89th governor of Connecticut. Lamont got involved in public service shortly after college, founding a weekly newspaper in a town hit by the loss of its largest employer. Covering town meetings and the Board of Selectmen, he helped to bring voice and transparency to a community working to recover from job losses and reinvent itself. Later, as a member of both the Greenwich Board of Selectmen and the Board of Estimate and Taxation, Lamont worked in a bipartisan effort to safeguard a multimillion-dollar budget and

deliver results for constituents. For four years, Lamont also served as Chairman of the State Investment Advisory Council, overseeing a multibillion-dollar state pension fund. Lamont started his own company, taking on the large and established giants of the telecom industry. Under his vision and stewardship, the company grew to serve over 400 of America's largest college campuses and 1 million college students across the nation. As a volunteer teacher, Lamont sought to give back to his community by volunteering at Harding High School in Bridgeport. In an effort to spark entrepreneurship, Lamont taught students about the inner-workings of small businesses, bringing in local businesspeople to share their own experiences, and helping to place students in local internships. Lamont is on the faculty of Central Connecticut State University as an adjunct professor of political science and philosophy, where he also helped to found a popular business start-up competition. In early 2009, he helped lead an initiative to bring together Connecticut leaders from across the business, nonprofit, and labor sectors to unite in a strategy to create new jobs in the state. As a candidate for United States Senate in 2006, he stood up for his convictions and challenged the political establishment. Taking on long-time incumbent Joe Lieberman for the Democratic nomination for United States Senate, Lamont campaigned on the platform that wars in the Middle East were draining resources and attention that could be better focused on pressing domestic issues like the economy, education, and healthcare. As a private citizen, he fought for the issues in which he believes, serving on the boards of Mercy Corps and the Conservation Services Group, non-profits which seek to make a difference in the humanitarian and renewable energy fields, respectively. Lamont was born on January 3, 1954, in Washington, D.C. to Camille Helene and Edward Miner Lamont. The eldest of three children, he attended Phillips Exeter Academy, and served as president of the student newspaper, *The Exonian*. After graduating Phillips Exeter in 1972, he earned a Bachelor of Arts in sociology from Harvard College in 1976 and a Master of Business Administration from the Yale School of Management in 1980. Lamont married his wife Annie on September 10, 1983. They have three children: Emily, Lindsay, and Teddy.

Eric Limpaecher, Group Leader, Energy Systems Group, Massachusetts Institute of Technology Lincoln Laboratory – Erik Limpaecher is Group Leader of the Energy Systems Group at MIT Lincoln Laboratory, a Department of Defense Federally Funded R&D Center. His team develops controls, testbeds, and performs systems integration to achieve energy security for U.S. communities, the bulk electric power system, tactical power systems, and Department of Defense installations. Limpaecher holds degrees in electrical engineering and finance from Princeton University. Prior to Lincoln Laboratory, Limpaecher co-founded two profitable power electronic companies based on his patented power conversion technology. He was principal investigator on dozens of advanced power electronics research projects, developed of several commercial and U.S. Navy products, and built a Nationally Recognized Test Lab for UL certification of distributed generation products. His teams have twice won the prestigious R&D 100 Award for technology commercialization. Limpaecher is a Senior Member of the IEEE, an avid cyclist, and father of two Cub Scouts.

Jackie McCarthy, Assistant Vice President – Regulatory Affairs, CTIA – Jackie McCarthy is the Assistant Vice-President of Regulatory Affairs at CTIA®. McCarthy addresses wireless policy issues for the Internet of Things, including connected transportation, smart cities, mobile health and mobile financial services. She also leads outreach to stakeholders and entrepreneurs in these sectors. She serves as co-chair of FCBA's New England Chapter. Previously, McCarthy served as Director of State Regulatory Affairs at CTIA. Prior to joining CTIA in 2009, she was the Director of Government Affairs at the Wireless Infrastructure Association. McCarthy earned a B.S., with High Honors from Stetson University, and a J.D. with Honors from Emory University School of Law. In her spare time, McCarthy enjoys endurance sports.

Jack McCoy, Chief Information Officer, Town of Manchester, Connecticut – Under Jack McCoy's leadership as CIO of Town of Manchester Information Systems, Manchester was a Nationally Ranked Top Ten Digital City for Seven years following its City-wide Fiber Optic Municipal Network deployment connecting all municipal buildings (schools, public safety and departments throughout the city) using the Connecticut Municipal Gain space. In addition to Serving as Manchester's CIO, McCoy served two terms as Connecticut GMIS President which is an association of Municipal technology managers. McCoy is a 30-year member of the IEEE and a graduate of the University of Connecticut (go Huskies!).

Daniel McGahn, Chairman and Chief Executive Officer, American Superconductor – Dan McGahn was appointed to the position of Chief Executive Officer in June 2011. McGahn joined AMSC in 2006 as Vice President, Strategic Planning and Corporate Development, and was later promoted to Senior Vice President of Asian Operations. In these roles, he was responsible for establishing AMSC's operations in China, Korea and India. In 2008, McGahn was promoted to the position of Senior Vice President and General Manager of AMSC Superconductors. In this role, he led efforts to significantly enhance AMSC's wire performance and production processes. In 2009, he was promoted to President and Chief Operating Officer with responsibility for AMSC's day-to-day global operations. From 2003 to 2006, McGahn served as Executive Vice President and Chief Marketing Officer of Konarka Technologies, a venture-backed developer of polymer photovoltaic technology for renewable power. While at Konarka, he helped significantly boost the company's profile with key external audiences and secure nearly \$40 million in financing. He also was responsible for business development efforts in Asia, Europe and North America. Prior to 2003, McGahn was General Manager and Chief Operating Officer of Hyperion Catalysis, a world leader in carbon nanotube production and application development, where he managed research and development, product development, manufacturing, sales and operations. He also held managerial positions at IGEN International, a medical device company, and Princeton Consultants. McGahn holds M.S. and B.S. degrees in engineering from the Massachusetts Institute of Technology.

Hon. Bernard L. McNamee, Commissioner, Federal Energy Regulatory Commission – Commissioner Bernard L. McNamee was nominated to the Federal Energy Regulatory Commission by President Donald J. Trump in October 2018 and confirmed by the U.S. Senate on December 6, 2018. Before joining the Commission, Commissioner McNamee served in a number of legal and policy positions at the state and federal level throughout his career. He also served at the U.S. Department of Energy (DOE) in multiple positions, including Executive Director of the Office of Policy and Deputy General Counsel for Energy Policy. Prior to that, Commissioner McNamee practiced energy law for almost nine-years total as a partner and senior counsel with McGuireWoods LLP, in Richmond, Virginia, primarily representing electric and natural gas utilities before state public utility commissions. Commissioner McNamee previously served as a policy advisor on energy issues for a United States Senator from Texas, worked at a free-market think tank on energy issues, served four attorneys general in two states (Virginia and Texas), and was a policy advisor to a Virginia governor. Commissioner McNamee received his bachelor's degree from the University of Virginia and his law degree from Emory University School of Law.

Jennifer Murphy, Director of Energy Policy and Senior Counsel, National Association of Regulatory Utility Commissioners – Jennifer Murphy is the Director of Energy Policy and Senior Counsel for the National Association of Regulatory Utility Commissioners (NARUC). Murphy oversees NARUC's energy policy development and handles NARUC's energy-related legal and policy work before federal agencies (e.g., FERC, DOE, EPA) and the federal courts. Murphy is also counsel for the National Regulatory Research Institute and a member of the Energy Bar Association's Board of Directors. Prior to joining NARUC, Murphy worked for the Massachusetts Department of Public Utilities in the Legal Division and the Division of Regional and Federal Affairs. Murphy also clerked for the Connecticut Appellate Court, worked as an international affairs specialist for the National Oceanic and Atmospheric Administration (NOAA), and was a Sea Grant Fellow for the Committee on Resources, U.S. House of Representatives. Murphy holds a law degree from Vermont Law School, master's degrees in international studies and marine affairs from the University of Washington, and a bachelor's degree from Tufts University.

Galen Nelson, Senior Director, Innovation & Industry Support, Massachusetts Clean Energy Center – Galen Nelson is the Senior Director of Innovation and Industry Support at the Massachusetts Clean Energy Center, where he leads a team focused on providing targeted, strategic, and timely resources to help clean energy companies and entrepreneurs develop technologies, move closer to commercialization and market growth. Nelson focuses primarily on emerging markets including microgrids, energy storage, clean transportation, grid edge technologies, and energy resilience. Prior to joining the MassCEC, Nelson designed and managed an array of clean energy, green building, and sustainability programs at the City of Boston, and co-developed the City's green building affordable housing policies. Nelson has also co-founded two cleantech startups and has over 10

years' experience developing programs, policies, and pilots at the city and state levels often at the intersection of urban planning, economic development, and clean energy. He holds a Bachelor of Arts from Colby College.

Hon. Matthew Nelson, Chairman, Massachusetts Department of Public Utilities – Matthew Nelson was appointed Chair of the Department of Public Utilities in February 2019. Commissioner Nelson began his energy career at the DPU in 2007 in the Natural Gas Division. Subsequently, Commissioner Nelson served as the Supervisor of Regulatory, Policy, and Planning for Eversource Energy as part of the nationally recognized Mass Save program. Returning to the DPU, Commissioner Nelson became the Director of Electric Power, as well as the director of Regional and Federal Affairs. During Commissioner Nelson's time at the DPU, he investigated a wide range of utility issues, including grid modernization investments, general rate case issues, solar and renewable energy development, energy efficiency, climate strategies, competitive supply, and storm restoration issues. Commissioner Nelson's work at the DPU and elsewhere has focused on reducing costs to ratepayers, while improving reliability and continuing to drive down greenhouse gas emissions. Commissioner Nelson is a graduate of Stonehill College, and holds a Master's degree in economics from Tufts University.

Michael O'Boyle, Director of Electricity Policy, Energy Innovation – Mike O'Boyle is the Director of Electricity Policy for Energy Innovation, a San Francisco-based think tank with the mission to accelerate progress in clean energy by supporting the policies that most effectively reduce greenhouse gas emissions. O'Boyle directs the firm's Power Sector Transformation program to uncover policy and technology solutions for a clean, reliable, and affordable U.S. electricity system. O'Boyle provides customized research, expertise, and resources to policymakers and other utility stakeholders from a variety of states—including California, New York, Oregon, Rhode Island, Hawaii, and Minnesota—to help improve the link between public policy goals and the motivations of electric utilities. In particular, O'Boyle is researched and written extensively about performance-based ratemaking, and the potential for rate reform to drive demand-side management and decarbonization. O'Boyle holds a JD from Arizona State University and a bachelor's degree from Vanderbilt University.

Christopher Parent, Director of Market Development, ISO New England -- Christopher Parent is Director of Market Development at ISO New England. In his role, he is responsible for the design and development of the New England wholesale electricity markets. He has been with the ISO since 2004 having held various positions responsible for the market settlement, market analysis, market solution implementation and quality management programs. Prior to joining the ISO, Parent worked for Accenture in their energy practice, primarily focused on the electricity sector. Mr. Parent holds a B.S. in Business Administration with a minor in Computer Science from St. Michael's College in Vermont. Parent lives with his wife and two children in northern Connecticut.

Hon. Karen Charles Peterson, Commissioner, Massachusetts Department of Telecommunications and Cable – Karen Charles Peterson is Commissioner of the Department of Telecommunications and Cable, where she serves as the principle communications regulator for the Commonwealth of Massachusetts. In addition to her duties at the Department, Commissioner Charles Peterson is a member of the National Association of Regulatory Utility Commissioners serving on the association's Board of Directors and is Chair of its Committee on Telecommunications. Commissioner Charles Peterson also serves as NARUC representative to the North American Numbering Council. Commissioner Charles Peterson is also involved in broadband policy development, and is a member of both the Massachusetts Broadband Institute and the FCC's Broadband Deployment Advisory Council. Prior to her appointment as Commissioner in 2014, Commissioner Peterson joined the Department as its Chief of Staff in 2012. Commissioner Peterson brings to the Department years of leadership experience in both city and state government, having served as Chief of Staff for the Registry of Motor Vehicles, the Executive Office of Transportation, and the Massachusetts Bay Transit Authority. Before joining government, Commissioner Peterson was a producer for the award winning news program, Greater Boston with Emily Rooney on WGBH. Commissioner Peterson is a graduate of Suffolk University and the Center for Women in Politics and Public Policy at the University of Massachusetts, Boston.

Linda Randell, Attorney & Governance/Regulation Consultant and Former Chair, American Bar Association Infrastructure and Regulated Industries Section – After many years helping clients in the energy and regulated

industry sectors, Linda L. Randell now primarily focuses on governance and ethics. She regularly presents on governance, culture, and ethics, to increase understanding of how to prevent problems and best addressing issues that do occur. Randell is an experienced general counsel and law firm leader. She chaired the regulated industries practice at Wiggin and Dana LLP and then served as SVP/general counsel at UIL Holdings Corporation, an NYSE-listed utility holding company owning electric and gas companies, with responsibility for governance and corporate secretary functions. After leaving UIL in 2016, Randell served on the Board of Governors of the American Bar Association, and has chaired the Board's Governance Committee. She previously served as Chair of the ABA's Section of Public Utility, Communications and Transportation Law (now the Infrastructure and Regulated Industries Section). Randell serves on nonprofit organizations' Boards of Directors, and has served as president and member of the corporate Board of The Yale Law Journal, Incorporated. Randell received an A.B. with high distinction and high honors in economics from the University of Michigan, and holds a J.D. from Yale Law School.

Sharon Reishus, President, Reishus Consulting – Sharon M. Reishus is a subject matter expert and independent thought leader with nearly 30 years of experience in the energy industry, specializing in providing strategic insights and context for executives of regulated utilities in the US and Canada. She led the North American Power advisory service at IHS Energy (formerly IHS CERA), providing policy analysis, scenario planning and consulting to a diverse set of high-level clients while managing a team of energy modelers and analysts. Prior to IHS, Reishus was appointed Commissioner and then Chairman of the Maine Public Utilities Commission (MPUC), a state agency regulating utility companies, where she also served on the Board of Directors of the Regional Greenhouse Gas Initiative (RGGI) and oversaw Efficiency Maine. She previously was an analyst with Cambridge Energy Research Associates (CERA), a staffer at the MPUC, and a strategic planner at Central Maine Power Company. Before entering the energy industry, Reishus served as an intelligence analyst and Presidential briefer in The White House Situation Room. She holds a BS in Applied Earth Science from Stanford University and an MBA from the Wharton School, University of Pennsylvania. She is based in Augusta, Maine.

Hon. John Rhodes, Chair, New York Public Service Commission – John B. Rhodes was designated Chair of the Public Service Commission and CEO of the Department of Public Service on June 21, 2017. His term runs through February 1, 2021. Prior to starting with the Commission, Chairman Rhodes served as President and CEO of the New York State Energy Research and Development Authority. Chairman Rhodes brings more than 30 years of experience in business with a focus on the financial and energy industries having lived and worked internationally. Chairman Rhodes is a member of the NARUC Committee on Electricity. He also serves on the boards of the New York Institute for Special Education and the American Federation for Aging Research. Chairman Rhodes holds a bachelor's degree from Princeton University and a master's degree from the Yale School of Management.

Hon. Anthony Roisman, Chair, Vermont Public Utility Commission – Anthony Z. Roisman was appointed to a six-year term as Chair of the Vermont Public Utility Commission in June 2017. Previously, he was in private practice and consulting with attorneys and state agencies on environmental litigation, the admissibility of expert testimony in complex litigation, and public participation before the Nuclear Regulatory Commission. His extensive experience includes litigating claims related to toxic substance exposures and serving as Senior Staff Attorney for the Natural Resources Defense Council; Chief of the Hazardous Waste Section and Special Litigator for Hazardous Waste in the Lands and Natural Resources Division of the U.S. Department of Justice; and Executive Director of Trial Lawyers for Public Justice. He was an Adjunct Professor and Research Fellow in Environmental Studies at Dartmouth College and is a frequent lecturer with the American Law Institute and other organizations on expert witness admissibility and environmental law. A 1960 graduate of Dartmouth College and 1963 graduate of Harvard Law School, Chairman Roisman resides with his wife in Weathersfield, VT.

Paul Roberti, Chief Counsel, Pipeline and Hazardous Materials Safety Administration – Paul Roberti was sworn in as PHMSA's Chief Counsel on March 27, 2018 by U.S. Transportation Secretary Elaine L. Chao. As Chief Counsel, he is responsible for the legal affairs, including all enforcement functions, for the 585-member

agency's safety oversight of the nation's 2.7 million miles of natural gas and hazardous liquid pipelines; and 1.2 million daily hazardous materials shipments across all modes of the nation's transportation network. Previously, he was an Executive Director at Ernst & Young (EY) where he was a member of the firm's Advisory practice specializing in power and utilities, IT transformation, cybersecurity, transmission siting, emerging technology adoption and regulatory strategy. Prior to EY, he served seven years as a Commissioner on the Rhode Island Public Utilities Commission, after being appointed by the Governor and unanimously confirmed by the Senate. During that period, he served in various leadership roles at the National Association of Regulatory Utility Commissioners (NARUC), including Chairman of the Subcommittee on Pipeline Safety, Vice-Chairman of the Gas Committee, and member of the Board of Directors of NARUC and the National Regulatory Research Institute. In 2016, he received NARUC's "Terry Barnich" Award for recognition of his international service for advising the nations of Moldova, Georgia, Nigeria, India, Jamaica and Mexico on energy policy. Before his role as Commissioner, he served as Assistant Attorney General and Chief of the Regulatory Division at the Rhode Island Attorney General's Office for seventeen years, where he was responsible for energy and public utility matters at both the State and Federal level. Before the Attorney General's Office, he was engaged in the private practice of law. He was a Law Clerk to Rhode Island Supreme Court Justice Donald F. Shea, after graduating from Suffolk University School of Law. He received a Chemistry degree from the College of the Holy Cross.

Joseph Rosenthal, Principal Attorney, Office of Consumer Counsel, State of Connecticut – Joe Rosenthal has been a lawyer with the Office of Consumer Counsel (OCC) since 2003. His varied practice includes frequent appearances before the Public Utilities Regulatory Authority and Connecticut courts on issues ranging from natural gas infrastructure expansion, to power plant contract interpretation, to utility pole administration for broadband development, as well as numerous other topics. He has been involved in many Federal Energy Regulatory Commission proceedings and regional electricity matters, and has a particular interest in the interactions between regional wholesale energy markets and state contracting. Rosenthal often leads OCC's efforts to develop testimony on pending bills before the Connecticut Legislature and has testified many times before its Energy & Technology Committee. Rosenthal has also been a guest speaker at various utility conferences across the country, from Los Angeles to Boston. In addition to his OCC duties, Rosenthal is on the Coordinating Committee of the New England Consumer Liaison Group, which hosts quarterly educational events around the region with a focus on topics of interest to commercial and industrial consumers. Rosenthal graduated in 1996 from Boston College Law School, *magna cum laude*, and prior to that received bachelor's (with honors) and master's degrees in mathematics from the State University of New York at Binghamton.

Jennifer Schilling, Director, Grid Modernization, Eversource – Jennifer Schilling is the Director of Grid Modernization at Eversource Energy. Schilling has been with Eversource for over ten years where she has held various director positions in the engineering organization before taking her current role with the founding of the grid modernization group in 2017. In her role, Schilling oversees business strategy with respect to the evolving need for the electric power system to create value for customers by intelligently incorporating clean distributed energy resources. Prior to joining Eversource, Schilling was the director of corporate strategic planning for Reliant Energy, a national independent power producer. Schilling graduated from Barnard College with a BA in environmental science and political science and has an MBA from Duke University.

Susan Suhanovsky, President, Torrington Water – Susan M. Suhanovsky has worked for The Torrington Water Company for over thirty-five years. In March 2008 she assumed the position of President of the Company and before that was Senior Vice President. Responsibilities include overall management, finance and administrative duties along with overseeing regulatory compliance for the Company. She holds a Bachelors Degree in International Business from Central Connecticut State University and an MBA in Finance from the University of Connecticut. She has been active on community and industry boards. She is Past President of the CT Water Works Association and a current Director of the National Association of Water Companies. Her interests include photography and travel to different parts of the world. Suhanovsky has four children and resides in New Hartford, CT.

Hon. June Tierney, Commissioner, Vermont Department of Public Service – June E. Tierney was sworn in as the Commissioner of the Vermont Department of Public Service by Governor Phil Scott on January 5, 2017.

Prior to her appointment, Commissioner Tierney served as general counsel to the Vermont Public Utility Commission (2012-2016). Before then, she was a PUC hearing officer (2008-2012), as well as a staff attorney at the Vermont Department of Public Service (2001-2008). A 1986 graduate of Boston University and a 1993 graduate of Vermont Law School, Commissioner Tierney began her legal career with a clerkship at the Vermont Supreme Court, followed by three years as an associate at Davis Polk & Wardwell in New York City, where she specialized in securities fraud litigation, white collar crime defense and corporate internal compliance investigations. Before her admission to the bar, Commissioner Tierney enjoyed the privilege of serving on active duty (1986-1990) as a commissioned officer in the United States Army.

Hon. Nicholas Ucci, Deputy Commissioner of Energy, Rhode Island Office of Energy Resources – Nicholas S. Ucci serves as the Deputy Commissioner of the Rhode Island Office of Energy Resources (OER), where he helps develop and oversee policies and programs that advance the energy, economic, and environmental interests of the Ocean State in a sustainable, cost-effective manner. OER works closely with private and public stakeholders to increase the reliability and security of Rhode Island's energy system; reduce long-term energy costs; and promote adoption of clean, no-to-low carbon energy solutions, while balancing ratepayer and environmental impacts. Prior to becoming Deputy Commissioner, Ucci served as OER's Chief of Staff, as Principal Policy Analyst for the Rhode Island Public Utilities Commission, and as Coordinator of the Rhode Island Energy Facility Siting Board. In each of these roles, Deputy Commissioner Ucci has represented state interests on a wide variety of energy and electric wholesale market issues, working closely with other New England energy officials and various stakeholder bodies to advance Rhode Island's policy goals. Deputy Commissioner Ucci is a proud graduate of the University of Rhode Island (URI), where he earned a Master of Arts degree in Political Science, with a concentration in Public Policy and a Graduate Certificate in Labor Relations. He also holds a Bachelor of Arts degree, with Highest Distinction, in Political Science and Economics from URI. A devoted father of two small children, Deputy Commission Ucci was elected by his peers to the Bishop's Committee of St. Francis Episcopal Church (Coventry, RI) and is an avid gardener and winemaker.

Hon. R. Bruce Williamson, Commissioner, Maine Public Utilities Commission – Dr. Bruce Williamson is Commissioner, Maine Public Utilities Commission He is active with the National Association of Regulatory Utility Commissioners, the Research Advisory Council for the Electric Power Research Institute (EPRI), serves as co-chair of Maine's Regional Greenhouse Gas Initiative (RGGI) and is on the Executive Board of RGGI, Inc.; is a symposium participant for the Harvard Electricity Policy Group (HEPG); and serves on the Board of Directors for the ConnectME Broadband Authority in Maine. Commissioner Williamson has 40 years of industry experience in economics, market valuation, regulatory economics, and technology adoption for investor-owned as well as publicly-owned utilities, both in the US and internationally. Much of his work supported new market development, valuation of markets, and bid preparation for national auctions to obtain operator licenses, and the network business modeling to support buildouts. He has also contributed to the field of defense economics for the US Air Force and the Naval Postgraduate School regarding cost, schedule and quantity contracting in major defense acquisition programs. Commissioner Williamson holds a PhD in Economics, an MA degree in International Studies, and a BA in American Foreign Policy and Government.