SUSAN F. TIERNEY, Ph.D. Analysis Group

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Dr. Tierney, a Senior Advisor at Analysis Group, is an expert on energy economics, regulation, and policy, particularly in the electric and gas industries. She has consulted to businesses, federal and state governments, tribes, environmental groups, energy consumers, foundations, and other organizations on energy markets, economic and environmental regulation and strategy, and energy projects. Her expert witness and consulting services have involved wholesale and retail market analysis and design, technology and market trends, regional transmission organizations, the siting of electric and gas infrastructure projects, electric system reliability, utility ratemaking, carbon-emission-reduction policy, and other environmental policy and regulation. She has served as an expert in civil litigation cases and regulatory proceedings before state and federal agencies.

Previously, she served as the Assistant Secretary for Policy at the U.S. Department of Energy. She was the Secretary of Environmental Affairs in Massachusetts, where she was responsible for environmental regulation and natural resource protection. She was Commissioner at the Massachusetts Department of Public Utilities, Chairman of the Board of the Massachusetts Water Resources Authority, and Executive Director of the Massachusetts Energy Facilities Siting Council.

Dr. Tierney has authored numerous articles and spoken frequently at industry conferences. She serves on a number of boards and advisory committees, including chairing the Board of Resources for the Future. She also serves as: a trustee of the Barr Foundation and of the Alfred P. Sloan Foundation; a director of World Resources Institute, the Coalition for Green Capital, the Energy Foundation, and the Climate Leadership Initiative; and an Advisor to the Trustees of the Oak Foundation. She is a member of the advisory councils at the New York University's Institute for Policy Integrity and the New York Independent System Operator (NYISO). She is a member of the National Academies of Sciences, Engineering and Medicine's Committee on Accelerating Decarbonization in the United States and the National Academies' Climate Crossroads Initiative. She was a member of the NAS's Committee on The Future of Electric Power in the U.S. (2021), the Role of Net Metering (2023), and Enhancing the Resilience of the Nation's Electric Power Transmission and Distribution System (2021). She chairs the External Advisory Council of the National Renewable Energy Laboratory (NREL) and previously chaired the Department of Energy's Electricity Advisory Committee. She was co-lead author of the energy chapter of the National Climate Assessment. She was Chair of Board of Directors of ClimateWorks Foundation, a member of the Columbia University's Center for Global Energy Policy Advisory Council, Duke University's Nicholas Institute Advisory Board, and a Visiting Fellow in Policy Practice at the University of Chicago's Energy Policy Institute, and served on the U.S. Secretary of Energy Advisory Board and the U.S. Environmental Protection Agency's Clean Air Act Advisory Council.

She taught at the Department of Urban Studies and Planning at MIT and at the University of California at Irvine, and has lectured at Harvard University, Yale University, New York University, Tufts University, Northwestern University, University of Chicago, and University of Michigan. She received NARUC's Mary Kilmarx Award in 2015, and in 2020 was designated as a National Associate of the National Research Council of the Academies of Sciences, Engineering and Medicine. She earned her Ph.D. and M.A. in regional planning at Cornell University and her B.A. at Scripps College.

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EDUCATION

1980	Ph.D., regional planning, Cornell University
1976	Masters of Regional Planning, Cornell University
1973	B.A., art history, Scripps College Studied political science at L'Institut d'Etudes Politiques, Paris, France

PROFESSIONAL EXPERIENCE

2003–Present	Analysis Group, Inc., Boston, MA and Denver, CO Senior Advisor (April 2014–Present) Managing Principal (July 2003–March 2014)
1999–2003	Lexecon, Inc., Cambridge, MA (formerly The Economics Resource Group, Inc.) Senior Vice President
1995–1999	Economics Resource Group, Inc., Cambridge, MA Principal and Managing Consultant
1993–1995	U.S. Department of Energy, Washington, D.C. Assistant Secretary for Policy
1991–1993	Commonwealth of Massachusetts, Executive Office of Environmental Affairs, Boston Secretary of Environmental Affairs
1988–1991	Commonwealth of Massachusetts, Department of Public Utilities, Boston, MA Commissioner
1984–1988	Commonwealth of Massachusetts, Energy Facilities Siting Council, Boston, MA Executive Director
1983–1984	Commonwealth of Massachusetts, Executive Office of Energy Resources, Boston, MA Senior Economist
1982–1983	Commonwealth of Massachusetts, Energy Facilities Siting Council, Boston, MA <i>Policy Analyst</i>
1982	National Academy of Sciences, Washington, D.C. Researcher
1978–1982	University of California at Irvine, Irvine, CA Assistant Professor

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SELECTED CONSULTING EXPERIENCE

Various Confidential Engagements

Including power sales agreements, fuel contracts, investment strategy, project development, and other electric and gas industry matters.

Center for Applied Environmental Law and Policy

White paper on how vertically integrated electric utilities could maximize return on federal funding opportunities (2024)

Environmental Defense Fund

White paper on electric system reliability and the EPA's proposed rule to regulate GHG emissions from the nation's power plants (2023-2024)

National Grid US

White paper on the important role of the electric distribution system in the decarbonization of the Massachusetts economy (2023)

Environmental Defense Fund

White paper on market fundamentals and transitions affecting coal-fired power plants in the U.S. (2023).

Commonwealth Edison Company

Expert witness in support of ComEd's proposed grid modernization plan and multi-year rate case (2022-2023).

Coalition of Bondholders

Expert witness to assess demand forecasting and supply projections for the Puerto Rico Electric Power Authority (2023-2024)

Major Electric Utility

Analyzed the economic and policy implications of wholesale electricity market congestion (2022).

Zuni Tribal Council

Advisor on transmission line right-of-way compensation issues (2020-2022).

RISE Light & Power/Outerbridge New Jersey LLC

Co-author of report on the public benefits of the client's onshore transmission proposals to support the delivery of offshore wind into New Jersey (2021).

Pacific Gas & Electric Company, Southern California Edison, San Diego Gas & Electric Company Witness on policy issues related to reforms of the companies' net energy metering tariff (2021-2022).

Group of U.S. and European Foundations Funding on Climate Mitigation Issues

Work with China clean energy expert to analyze gaps in philanthropic funding on GHG mitigation in China (2021-present).

Coalition of CEOs of Investor-Owned Electric Utilities and Environmental Organizations

Project manager to support <u>roundtable discussions</u> on reducing greenhouse gas emissions in the U.S. power sector (2020-2022).

CMS Energy

Witness in support of CMS Energy's appeal before the Michigan Tax Tribunal (2020-2022).

Coalition for Green Capital

Co-authored a white paper on a new national green bank (2020-2021).

Pacific Gas and Electric Company

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Conducted benchmarking study on investor-owned utilities' provision of wholesale distribution service and submitted testimony in PG&E's rate case filing on its wholesale distribution tariff (2020-present).

Santee Cooper

Prepared affidavit on states' electric industry structure (2020).

Major Electric and Gas Utility

Analyzed the impacts (e.g., on cost, GHG emissions, gas and electric system costs) associated with alternative strategies for shifting end-use consumers' non-electric energy uses to electricity (2019-2020).

La Plata Electric Association

Prepared testimony before the Colorado Public Utilities Commission regarding the complaints by La Plata Electric and United Power of the exit fee to be charged by Tri-State Generation and Transmission Association for La Plata's and United's potential withdrawal from the Tri-State system (2020).

Natural Resources Defense Council

Prepared a white paper on comments filed in the Federal Energy Regulatory Commission docket on whether to modify its Policy Statement related to certification of new gas pipelines (2019).

Delta-Montrose Electric Association

Provided testimony before the Colorado Public Utilities Commission regarding the complaint by Delta-Montrose of the exit fee being charged by Tri-State Generation and Transmission Association for Delta Montrose to withdraw from participation in the Tri-State system. (2019)

Transource

Provided testimony before the Maryland Public Service Commission regarding regulatory standards for reviewing transmission proposals that emanate from the regional transmission-planning process administered by a Regional Transmission Organizations. (2019)

New York ISO (NYISO)

Prepared a white paper on the impacts on New York of the introduction of a carbon pricing mechanism into NYISO wholesale markets (2019).

Salt River Project

Wrote white paper on utility ratemaking processes and principles (2019).

Attorney General of New York State, on behalf of a coalition of state Attorneys General

Preliminary assessment of the U.S. Environmental Protection Agency's proposed Affordable Clean Energy (ACE) rule with changes in the New Source Review program (2018-2019).

Xcel Energy (Northern States Power - Minnesota)

Facilitated stakeholder meetings and outreach related to NSPM's integrated resource plan (2018-2019).

Commonwealth Edison (ComEd)

Provided expert testimony before the Illinois Commerce Commission on regulatory policy issues related to proposed pilot projects involved battery energy storage systems (2018).

Pacific Gas & Electric Company, San Diego Gas & Electric Company, Southern California Edison Company

Prepared white paper on a future structure for California's resource-adequacy and wholesale market structure in a low-carbon power system (2018).

Analysis Group, Inc.

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Prepared a white paper about the rebound effect in estimating the impacts of changes in federal fuel economy and greenhouse-gas-emissions standards (2017-2018).

Merck Family Foundation

Analyzed the economic impacts of the Regional Greenhouse Gas Initiative's third compliance period (2015-2017) (2018).

Commonwealth Edison (ComEd)

Provided expert testimony before the Illinois Commerce Commission on regulatory policy issues related to a proposed microgrid pilot project (2017).

Natural Resources Defense Council

Prepared a white paper on changes in the natural gas industry since 1999 when the Federal Energy Regulatory Commission issued its Policy Statement related to certification of new gas pipelines (2017).

New York State Research and Development Administration

Provided support to NYSERDA and the New York Department of Public Service on issues relevant to the New York "REV" proceeding (2017-2019).

Hewlett Foundation

Supported strategy development for the Foundation's Environment Program (2017).

Advanced Energy Economy Foundation and American Wind Energy Association

Co-authored a white paper on wholesale power markets and system reliability and resilience (2017).

Entergy Vermont Yankee

Provided expert testimony before the Vermont Public Service Board on the public benefits of the proposed sale of Vermont Yankee to NorthStar (2016–2018).

Dominion Energy

Analyzed the implications for carbon emissions and consumer costs of a hypothetical shutdown of the Millstone Nuclear Station in Connecticut, and proposed testimony in support of Dominion filings before state agencies related to Millstone and a potential long-term power sales agreement for zero-carbon supply (2017–2019).

Protect the Granite State

Analyzed the economic implications of the proposed Northern Pass Transmission project for New Hampshire and New England (2017).

Environmental Defense Fund

Authored a white paper on challenges facing the U.S. coal industry in the 21st Century (2016).

Merck Family Fund

Co-authored a white paper on potential design issues relating to trading of carbon-emission credits between RGGI states and other states under the U.S. EPA's Clean Power Plan (2016).

Consolidated Edison and Southern California Edison

Authored a white paper on the role of distributed energy resources in distribution utility planning and operations (2016).

Hawaii Gas Company

Provided expert testimony before the Hawaii Public Utilities Commission on issues related to the proposed merger of the Hawaii Electric Companies and NextEra (2015–2016).

The Energy Foundation and Merck Family Fund

Co-authored report on the economic impacts of the Regional Greenhouse Gas Initiative's (RGGI's)

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second three years of implementation during 2012–2014. (2015).

State of Delaware

Provided expert testimony before the Delaware Superior Court on issues related to the impact of the RGGI program on electricity customers and the economy in Delaware (2015–2016).

NEXUS Gas Transmission

Co-authored a report on the market for natural gas in the state of Ohio (2015).

Electric Power Supply Association

Co-authored a report for EPSA on the design of State Plans to align with organized wholesale markets in response to the U.S. Environmental Protection Agency's Proposed Clean Power Plan (2015).

Baltimore Gas and Electric, Pepco Holdings Inc. and PHI's affiliates Pepco, Delmarva Power, and Atlantic City Electric

Provided expert testimony before the Federal Energy Regulatory Commission on the need for and risks associated with transmission investment (2015).

Exelon Generating Company LLC

Analyzed alternative generation technologies and the consistency of Exelon's proposal to construct a natural-gas fired peaking unit with Massachusetts energy and environmental policies (2015).

The Energy Foundation

Co-authored reports on reliability issues related to the U.S. Environmental Protection Agency's proposed Clean Power Plan. (2014–2015).

New England Power Generators Association

Analyzed the impact of legislative proposals in Massachusetts to direct electric utilities to enter into long-term power supply agreements with Canadian hydropower companies. (2014, 2015).

Spectra Energy

Provided expert report in Maine regulatory proceeding related to the potential for the State of Maine to enter into a contract to support natural gas pipeline infrastructure in New England (2014).

The Energy Foundation and Merck Family Fund

Co-authored report on the consumer impacts of the U.S. EPA's proposed Clean Power Plan. (2014).

Exelon Corporation and Pepco Holdings, Inc.

Analyzed customer and state economic benefits of the proposed merger (2014–2015).

Major electric utility

Conducted independent review of the company's internal customer and shareholder analyses of long-term resource options (2014).

Major merchant generating company

Conducted valuation of assets (2014).

Entergy Wholesale Commodities

Provided strategic advice on wholesale and retail market issues in the Northeast power markets (2013–2016).

Hualapai Tribe

Provided strategic advice regarding energy resource development and valuation of electric transmission rights of way (2014–2018).

Barr Foundation

Prepared a report on the impacts of the Massachusetts Green Communities Act of 2008 on the

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Massachusetts economy. (2013–2014).

• Five California Utilities (LADWP, PG&E, SCE, SDG&E, SMUD)

Served on the four-person expert independent advisory panel for the third-party study of integration of renewable energy into California's Electric System. Contributed to report titled "Investigating a Higher Renewables Portfolio Standard in California" (2013–2014).

State of Colorado

Prepared expert report on behalf of the three public utility commissioners in Colorado, in support of the complaint against them on implementing Colorado's renewable energy standard under alleged violations of the interstate commerce clause (2013–2014).

Energy Foundation

Wrote white paper on the implications for electric system reliability of the Environmental Protection Agency's implementation of its authority under Section 111(d) of the Clean Air Act, to regulate greenhouse gas emissions from existing power plants (2013–2014).

Major engineering, construction and project management company

Prepared an expert report on electric market conditions in a dispute surrounding cancellation of a major power plant (2012–2017).

Ambri (battery company)

Analyzed energy system issues related to integration of renewables on a military base (2013–2014).

Advanced Energy Economy Institute

Facilitated workshop for state utility commissioners in Midwest states, on advanced energy technologies and related regulatory issues (2013).

Environmental Defense Fund – North Carolina

Testified on energy efficiency program design issues (2013).

Advanced Energy Economy Institute (with the New England Clean Energy Council and the New England Conference of Regulatory Utility Commissioners)

Supported workshop on advanced energy technologies and related regulatory issues (2013)

Lawrence Berkeley National Laboratory Energy Program

Provided regulatory policy support at the NJ Board of Public Utilities on smart grid workshop (2013).

Advanced Energy Economy Ohio

Provided testimony before the Ohio Senate Public Utilities Committee in support of the Ohio Energy Efficiency Resource Standard (2013).

Pepco Holdings Inc., and its operating affiliates, Potomac Electric Power Company, Delmarva Power & Light Company, and Atlantic City Electric Company

Provided testimony in support of appropriate incentives for investment in electric transmission (2013)

Baltimore Gas and Electric Company

Provided testimony in support of appropriate incentives for investment in electric transmission (2013).

Advanced Energy Economy Institute

Survey of CEOs of advanced energy companies doing business in California, with regard to the state's energy and environmental policies (2012–2013).

NSTAR and Cape Wind

Provided testimony in support of the long-term power contract of NSTAR and Cape Wind (2012).

Energy Foundation

Conducted strategic planning for the China Sustainable Energy Program (2012).

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Pacific Gas & Electric Company

Provided testimony on ratemaking issues for PG&E's proposed pipeline safety enhancement plan (2012).

COMPETE Coalition

Provided testimony on energy efficiency as part of the performance of state and wholesale electric markets in New Jersey (2011).

Compressed Air Energy Storage Company

Confidential engagement to analyze regional wholesale markets for baseload and renewable energy power generation (2011).

Merck Family Foundation

Analyzed the economic impacts of the funds collected through the auction of allowances under the Regional Greenhouse Gas Initiative (2011).

American Clean Skies Foundation Corporation

Analyzed the reliability and air emission issues associated with potential retirement of the Potomac River Generating Station (2011).

Colorado Public Utilities Commission

Analyzed the Colorado solar photovoltaic incentive program (2011).

Exelon Corporation and Constellation Energy (Baltimore Gas & Electric)

Analyzed the economic impacts on the Maryland economy associated with the proposed clean-energy commitments tied to the proposed merger of Exelon and Constellation Energy (2011–2012).

New England Power Generators Association

Analyzed competition issues in the proposed merger of Northeast Utilities and NSTAR (2011).

Dominion Generation

Analyzed the proposed state tax on output from in-state power generation (2011).

Exelon Corporation and Clean Energy Group

Analyzed electric industry issues involved in responding to the U.S. EPA's air regulations (2010-2015).

Major electric distribution company and independent power producer

Analyzed (modeled) the net benefits of retiring several generating units and replacing them with a long-term contract to provide power from a gas-fired power plant (2010).

Major electric utility company

Analyzed changing fuel-market conditions affecting the value of gas-fired power generation in the context of litigation (2010).

Commonwealth Edison Company

Analyzed the ratemaking issues for an electric distribution utility with respect to energy efficiency program effects in Illinois (2010–2011).

National Grid – Massachusetts electric distribution companies

Analyzed the market for the long-term contract for power from the Cape Wind project (2010).

Spectra Energy (with the Interstate Natural Gas Association of America)

Analyzed the markets for natural gas, and analysis of the implications of the U.S. EPA's Advanced Notice of Proposed Rulemaking on PCBs (2010–2011).

Renewable energy company

Analyzed transmission access, planning, cost allocation and siting conditions in US regions (2010-2011).

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Indian tribe in Midwest

Analyzed the value of an oil pipeline right-of-way (2010).

Dominion Generation

Analyzed the proposed legislation in Connecticut to establish a windfall profits tax on all generating assets located in the state (2010).

Transmission consortium

Analyzed cost-allocation models for an interstate transmission project involving transmission utilities and merchant transmission companies (2009–2010).

Massachusetts renewable energy trust

Analyzed transmission-related approaches to the development of offshore renewable energy (2009).

Major electric utility

Developed business models and approaches for deploying energy efficiency within the context of the American Climate and Energy Security Act framework (2009).

Major industrial electricity consumer

Assisted in analyzing the implications of the American Climate and Energy Security Act for the company, in light of impacts on energy prices and trade considerations (2009).

National Grid

Assisted in developing a revenue decoupling mechanism for retail distribution service, and testifying in electric and natural gas distribution rate cases in Massachusetts, Rhode Island, New York, and New Hampshire (2009–2011).

Sandia Pueblo

Assisted in valuing a transmission corridor on tribal reservation land (2008–2011).

Major electric and gas company

Provided analytic and strategic support for company's development of a business plan for energy efficiency and other energy-related investments on the customer side of the meter (2008).

AEP Transmission

Prepared a white paper on the design and cost allocation framework for a high-voltage transmission system designed to support renewable and other resources (2008).

Reliant

Prepared study assessing competition in the wholesale and retail electricity markets in ERCOT (2008).

Major environmental organization

Analytic and strategic support for utility ratemaking policies for advancing energy efficiency in many states (2008–2012).

New York Independent System Operator

Supported strategic planning and assessment for the Board of Directors (2008–2010).

Commonwealth Edison Company

Provided testimony on ratemaking policy issues relating to regulatory lag (2008).

Energy Association of Pennsylvania (EGA)

Analyzed of proposed legislation to cap retail electricity rates in Pennsylvania after the expiration of rate caps (2008).

National Association of Regulatory Utility Commissioners (NARUC)

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Prepared study on best practices relating to state regulatory agency policies and utility practices on competitive procurement of resources to serve retail electricity customers (2007).

KeySpan/Boston Gas

Analyzed of the implications of utility ratemaking for valuation of utility assets for property taxation purposes (2008).

Electric company

Analyzed of state's retail and wholesale power market structure (2008).

Electric company

Prepared expert report on electric industry structure in the 1990s and 2000s (2007–2008).

Major electric company

Provided analytic support for company's development of strategic plan for company-wide GHG-reduction commitments (2008).

Sierra Pacific Power Company

Provided testimony on policy issues relating to the use of historic, future, and hybrid test years in state utility rate cases (2007–2008).

Harvard University

Provided strategic assistance relating to regulatory issues affecting the planning and design of Harvard's "green campus" development in Allston Landing (2007–2008).

Public Service Gas & Electric Company of New Jersey (PSEG)

Provided assistance in facilitating the development of a policy to address "leakage" of CO₂ emissions associated with the adoption of the RGGI cap-and-trade program (2007).

Electric Power Supply Association

Prepared white paper on economic, environmental, and regulatory trends in the electric industry (2007).

Sempra Energy Company – San Diego Gas & Electric Company and SoCalGas Company

Provided testimony on policy issues relating to the provision of financial incentives to electric and gas utilities for the successful provision of energy efficiency programs (2007).

PECO Energy Company

Provided advice and testimony on various economic and policy issues relating to electric industry restructuring policy (2007).

Provided testimony on issues relating to the market for alternative energy credits and the proposal of PECO to voluntarily solicit, procure, and bank alternative energy credits (2007).

Commonwealth Edison Company

Provided testimony on issues relating to the relationship of auctions for wholesale supply for basic service customers and alternative proposals for utility resource procurement (2007).

ISO New England

Assisted in scenario planning for transmission and other alternatives (2006–2007).

PJM

Preparing report on market monitoring functions performed under various federal regulatory agencies with responsibility to oversee electricity and energy markets (i.e., the Federal Energy Regulatory Commission and the Commodities Futures Trading Commission) (2006–2007).

Major Industrial and Power Plant Company

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Assisted company in analyzing market and negotiating the price and other terms and conditions for long-term gas supply and in valuing a power plant asset (2006–2007).

State of North Carolina

Provided expert witness services on electric utility economics and regulatory issues, on behalf of the Attorney General in a nuisance lawsuit to require the Tennessee Valley Authority to put in place air pollution control equipment on coal-fired power plants in TVA's system. (2006–2008)

Major Regional Transmission Organization

Performed analysis of market conditions and trends, and benchmarking market rules and reliability performance with other comparable organizations (2006–2007).

Special LNG Committee, Commonwealth of Massachusetts

Prepared *pro-bono* report on the need for natural gas and liquefied natural gas in the Northeast (2006).

Ute Indian Tribe of the Uintah and Ouray Reservation

Prepared a report on economic and policy issues relating to use of tribal lands for energy rights-of- way, as called for in Section 1813 of the Energy Policy Act of 2005 (2006).

New York ISO

Prepared white paper on fuel diversity issues in the New York market (2008).

Prepared white papers on long-term contracting issues in states with restructured electric industries, and on the economic foundations for single-clearing-price markets versus pay-as-bid markets (2007).

Performed economic benefit/cost study of wholesale competition into the region's wholesale electric market (2006–2007).

Commonwealth Edison Company

Provided testimony on appropriate ratemaking principles for recovery of pension-related costs in proceeding to set rates to go into effect following the transition period (2006).

Commonwealth Edison Company

Provided testimony on economic principles associated with single-price auction design versus pay- asbid auction design (2006).

Exelon Corporation

Provided analysis of designs of mandatory carbon control policies (2005–2007).

Sonosky, Chambers, Sachse, Endreson & Perry, LLP, on behalf of various Indian Tribes

Provided analysis in support of comments filed with the Departments of Interior and Energy on energy rights of way on tribal land (as called for in Section 1813 of the Energy Policy Act of 2005) (2005–2006).

Provided analysis in support of various tribal negotiations with energy companies with respect to valuation of energy rights of way on tribal reservation lands (2007).

Electric utility company

Performed independent evaluator services in procurement for power resources (2005–2006).

Power Generation Company

Provided analysis of product market development in MidWest and Eastern RTOs (2005).

New England Energy Alliance

Prepared a white paper on energy infrastructure needs in the New England states (2005).

Committee on Regional Electric Power Cooperation (of the Western Interstate Energy Board) Provides research on market monitoring for Western wholesale electric markets (2005–2007).

Southern California Edison Company

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Provided Independent Evaluator services for a competitive procurement of new long-term generation resources and renewable resources (2005).

LNG / Interstate Gas Pipeline project – Duke Energy/Excelerate project

Prepared regional market study for the project proposed for Massachusetts (2004–2005).

Electric Generating Company

In a contract dispute, provided expert witness services relating to whether changes in a region's wholesale power market rules nullified a power sales agreement (2004–2006).

Louisville Gas & Electric and Kentucky Utilities

For two vertically integrated electric companies, provided expert witness services in a state investigation of which regional transmission approach satisfies state policy objectives (2004).

Independent Generating Company

For a power company owned by commercial lenders in a Northeast power market, provided consulting services to monitor state regulatory policies and actions affecting power plants (2004).

Major Electric and Gas Company

Performed confidential study of the benefits, costs and current conditions in certain wholesale and retail electric power markets (2004–2005).

Regional Transmission Organization

For a confidential project, analyzed market monitoring and mitigation approaches (2004–2005).

Major Commercial Bank

For a confidential project, advise with regard to electric industry restructuring and profitability of large energy marketer and trading organization (2004–2005).

Consumer Energy Council of America

For a group of electric industry market participants, regulators, and interest groups, prepared white papers on the need for transmission enhancements in U.S. power markets (2004).

Retail electric company

Provides confidential analysis of business models and regulation approaches for providing retail electric service in the state (2004).

Independent system operator

Provided confidential analysis and research on aligning retail and wholesale market policies (2004).

California State attorney general

Provided expert witness services with regard to state resource adequacy & planning practices (2004).

Pacific Gas & Electric Company

Provided expert witness services relating to the public benefits of the settlement between PG&E and the California Public Utility Commission, to enable PG&E to emerge from bankruptcy (2003).

Independent power company

Provided consulting advice on economics of compliance strategies for air and water permits (2003).

Major public utility company

Advised on the pricing and other terms for a long-term purchase power agreement (2003).

Duke Power

Provided expert advisory services relating to ratemaking and other regulatory practices (2003).

Exelon Generation

Provided strategic advice and analytic services relating to market conditions in New England (2003).

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Entergy Services Inc.

Provided services as the independent monitor of Entergy's Fall 2002, Spring 2003 and Fall 2003 Requests for Proposals for Supply-Side Resources (2002–2005).

Power generation company in New England

Provided expert testimony in contract dispute regarding allocation of uplift costs in an agreement concerning the supply of wholesale power for standard offer service (2002).

Connecticut Light and Power Company

Provided expert testimony in contract dispute regarding allocation of congestion costs in an agreement concerning the supply of wholesale power for standard offer service (2002–2003).

Ocean State Power

Provided arbitration services in a dispute regarding a gas purchase contract between Ocean State Power and ProGas Ltd. (2002–2003).

Regional independent system operator

Provided strategic advice on regional market trends and strategy (2002).

PJM Interconnection

Provided advice to the appointed mediator as part of the Alternative Dispute Resolution process, in a dispute involving PJM and a market participant (2002).

Duke Energy Corporation

Provided analysis on strategic issues in gas and electric regulatory policy for Duke Energy's corporate office, including with regard to code of conduct issues and wholesale competition (2001–2002).

Pacific Gas and Electric Corporation

Provided expert witness testimony in proceedings of the FERC on public benefits of the proposed restructuring of PG&E assets as part of its emergence from bankruptcy (2001–2002).

Massachusetts Renewables Trust

Provided assistance in support of the Trust's renewables and power quality program (2001–2002).

Major electric holding company

Prepared an analysis of the regulatory policies for reviewing merger applications in states where potential merger candidates are located (2001).

Western Massachusetts Electric Company

Provided expert testimony in contract disputes regarding allocation of congestion costs in agreements concerning the supply of wholesale power for standard offer service (2001–2002).

Energy Foundation

Researched and wrote a white paper on California's process for permitting new power plants (2001).

Cross-Sound Cable Company

Provided expert testimony regarding public benefits of proposal to construct merchant transmission facility across Long Island Sound (2001–2002).

Major independent power company

Served as expert witness in litigation surrounding power plant development project (2001–2004).

MASSPOWER Inc.

Served as Mediator in a contract dispute involving pricing of power purchases (2001).

NRG Energy and Dynegy

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Provided expert witness support in regulatory proceeding to review these companies' acquisition of power plants being divested by Sierra Pacific and Nevada Power (2001).

Occidental Chemical Corporation

Served as expert witness on vertical market power in electric utility's transmission practices (2000).

PP&L Global

Provided economic and environmental analysis and expert witness support for proposal to build the Kings Park Energy power plant in Long Island, New York (2000).

Calpine Corporation

Provided economic and environmental analysis and expert witness support for the Wawayanda power project in Rockland County, NY and for the Towantic power plant in Oxford, Connecticut (2001).

American National Power, Calpine, El Paso, NRG Energy, Sithe, Southern Energy

Provided support for the development of a proposal for an RTO for New England (2000–2001)

Duke Energy/Maritimes and Northeast Pipeline

Provided expert reports on the market and environmental impacts of new natural gas infrastructure and supply in New England (2000–2003).

Arkansas Electric Distribution Cooperatives and Arkansas Electric Cooperative Corporation

Served as expert witness on economic and public policy issues associated with wholesale and retail competition in Arkansas (2000–2001).

TransÉnergie U.S.

Served as expert witness on public benefits of a proposed merchant transmission facility (2000–2001).

Conectiv

Provided strategic wholesale market analysis and support for procurement of supplies for distribution utility company's provision of Basic Generation Services to retail customers (2000).

SCS Energy Corp. – Astoria Energy

Served as expert witness for proposal to build new power plant in New York City (2000–2001).

HEFA Power Options

Provided strategic advice regarding wholesale power market for retail buyers' group (2000–2003).

Major real estate development company

Provided analysis of electric and gas infrastructure for large mixed-use development (2000–2001).

Investment company

Provided strategic advice to investment company with regard to potential investment in major electric generating equipment manufacturing company (2000)/

Major independent power company

Provided economic and environmental support for company's application to construct a merchant power plant in Florida (2000).

Major railroad company

Provided expert witness support on economic and regulatory policy issues for railroad in state regulatory proceeding on a proposed utility merger (2000).

Coalition of Wireless Telecommunications Carriers

Prepared an expert report on economic benefits of wireless telecommunications (2000).

Major brownfield property developer

Provided valuation of property as a site for new electric generating facility (2000).

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Fitchburg Gas and Electric Company

Provided litigation support for a gas and electric company on rate design policy (2000)/

Consortium of electric companies

Provided economic analysis, contract review, and litigation support for a consortium of electric companies with power purchase agreements with PURPA projects (1999).

FirstEnergy Corp.

Provided expert witness support regarding generation asset valuation and the impacts of a new electric industry restructuring law on the company (1999–2000).

Ozone Attainment Coalition

Provided strategic analysis and advice on electric system reliability issues relating to electric companies' implementation of 2003 NOx requirements issued by the U.S. EPA (1999).

Municipal electric department

Provided expert witness services and analysis of the economics and need for a new natural gas pipeline proposed to serve an existing electric power plant in Massachusetts (1998–2001).

Seneca Nation

Provided expert analysis and strategic advice regarding the value of transmission rights of way, in a dispute with an electric utility company (1998–2000).

Major cable company

Provided strategic advice in a series of regulatory and court cases involving inter-affiliate transactions of electric utility company entering into competitive telecommunications and cable markets (1998).

Major electric utility company

Provided expert witness support regarding structural changes in the electric industry, in litigation pertaining to the company's restructuring plans (1998–1999).

Sithe Energies, Inc.

Provided strategic advice and regulatory support on a variety of issues (market analysis, transmission and ISO issues, federal and state market rules, legislation, siting, environmental strategy) relating to the company's participation in the New England, New York, and PJM markets (1997–2003).

Provided transition assistance to the company in its acquisition and integration of approximately 2,000 MW of existing fossil fuel generation from Boston Edison Company (1997–1998).

Provided transition assistance to the company in its acquisition and integration of approximately 4,100 MW of existing fossil and hydroelectric generation capacity from GPU Genco (1998–1999).

Provided support for the company's participation in electricity product markets under development in New England, New York and PJM (1997–2002).

Provided strategic project development advice and expert witness support for the company's applications to construct three natural gas merchant power plants (totaling 2865 megawatts) in Everett, Weymouth, and Medway, Massachusetts. (1998–2001)

Provided strategic guidance and regulatory support regarding design of air quality improvement plan for existing fossil units at Mystic Station. (1998–2001)

Provided strategic guidance regarding company's natural gas-fired merchant power plant development projects in Ontario, Canada (2000–2001).

Natural Resources Canada

Prepared a white paper on the implications for electric system reliability in Canada that are associated with restructuring the electric industry in the United States (1999).

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Cummins Engine Company, Inc.

Provided strategic analysis on implications of national energy and environmental policies for the Company's long-term business opportunities (1999).

Electric utility company

Provided advice and regulatory support with regard to the economics and prudency of an existing long-term power purchase agreement (1998).

National Association of Regulatory Utility Commissioners (NARUC)

Assisted the Executive Director and NARUC leadership in updating its strategic plan and in preparing a business plan for its implementation (1998).

State energy office

Assisted in analyzing options for supporting renewable resource development in the state and in designing a market-based strategy to implement a new renewables portfolio standard (1997–1998).

U.S. Generating Company (PG&E Generating Company)

Provided analysis of and testimony on the economic, reliability, and environmental benefits to the host state and region of a new merchant power generation facility: the 360-megawatt Millennium project in Massachusetts (1996–1997).

Provided analysis of and testimony on the economic, reliability, and environmental benefits of a new merchant power generation facility: the 792-megawatt Lake Road Generating Project in Connecticut (1997–1998).

Pennsylvania Power & Light Company

Provided strategic guidance, economic and policy analysis, and regulatory support for electric utility company as it developed and proposed its plan for restructuring its company for retail competition. Provided expert witness testimony on rate design policy issues (1996–1998).

Major diversified electric equipment company

Provided strategic advice and analysis on market opportunities and risk in various regions of the U.S. electric industry, under numerous restructuring scenarios (1996–1997).

Major nationwide electricity consumer

Conducted analysis of buying options and strategies for acquisition of electricity services in states with customer choice in retail generation markets (1997).

National Council on Competition in the Electric Industry

Prepared a Briefing Paper on Regional Issues in Electric Industry Restructuring, for the NCCEI – a joint project of the National Association of Regulatory Utility Commissioners, the National Conference of State Legislatures, the U.S. DOE and the U.S. EPA (1997).

Major western coal company

Analysis of western states' electric industry restructuring policies and market prices for power in various states within the Western Systems Coordinating Council area (1996–1997).

Major gas pipeline company

Provided analysis of market structures and prices for generation and delivery services in electric service territories where the gas pipeline would locate facilities that use electricity (1997).

Major electric supply company

Provided analysis of regional electricity market conditions to support the company's analysis of the value of various utility assets that were being divested as part of corporate restructuring (1997).

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Massachusetts Division of Energy Resources

Analyzed Boston Gas Company's proposal for unbundling its retail service, its proposal for performance-based rates, and its plan for departing the merchant function (1996–1998).

Massachusetts Division of Energy Resources

Assisted the state's energy office in developing policies for establishing a statewide fund to support renewable resource development as part of the state's electric industry restructuring plan (1997).

Massachusetts Water Resources Authority Advisory Board

Analyzed opportunities for use of the Authority's energy-using and -producing assets, to position itself beneficially as a participant in a restructured retail electricity market in New England (1996–1997).

Coalition of marketers and independent power producers

Analyzed state regulatory proposals for restructuring the electric industry (1996–1997).

Major independent power producer

Analyzed market opportunities and risks for merchant plant development in a U.S. region (1996).

Major independent power producer

Analyzed the expected market price of power in two regions of the U.S. electricity markets (1996).

Group of municipal electric companies in New York State

Served as expert witness on cost allocation issues in litigation on wholesale power contracts (1996).

TESTIMONY

Many confidential expert reports, testimonies, declarations, affidavits, and depositions.

• On behalf of Environmental and Public Health Respondent-Intervenors

Before the *U.S Court of Appeals for the District of Columbia Circuit*, State of West Virginia v. Environmental Protection Agency, No. 24-1120, Declaration of Susan Tierney, June 11, 2024.

On behalf of her own behalf

Before the *Federal Energy Regulatory Commission*, 2023 Electric Reliability Technical Conference, "Reliability Implications of EPA's Proposed Rule on Greenhouse Gas Standards and Guidelines for Fossil-Fuel Power Plants," November 9, 2023.

On behalf of her own behalf

Before the *Senate Budget Committee*, Hearing on "Beyond the Breaking Point: The Fiscal Consequences of Climate Change on Infrastructure," July 26, 2023.

• On behalf of Ad Hoc Group of PREPA Bondholders, et al.

Before the *U.S. District Court for the District of Puerto Rico*, Main Docket, 17-BK-3283-LTS and Case No. 17-BK-4780-LTS; Expert Report, May 5, 2023, December 18, 2023, January 12, 2024; cross-examination at deposition, May 31, 2023, January 22, 2024; testimony and cross-examination at trial, June 7th, 2023; declaration and cross-examination at trial, March 12-13, 2024.

On behalf of Commonwealth Edison Company

Before the *Illinois Commerce Commission*, Order Requiring Commonwealth Edison Company to file an Initial Multi-Year Integrated Grid Plan and Initiating Proceeding to Determine Whether the Plan is Reasonable and Complies with the Public Utilities Act and Verified Petition for Approval of a Multi-Year Rate Plan under Decision 16-108.18 of the Public Utilities Act, Consolidated Dockets No. 22-0486 and 23-0055, 2021, Direct Testimony, January 17, 2023; Rebuttal Testimony, June 27, 2023; Surrebuttal Testimony, August 14, 2023.

On her own behalf

Before the Federal Energy Regulatory Commission, Technical Conference on Greenhouse Gas Mitigation:

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Natural Gas Act Sections 3 and 7 Authorizations," Docket No. PL21-3-000, November 19, 2021.

Pacific Gas and Electric Company, Southern California Edison Company, San Diego Gas & Electric Company

Before the *California Public Utilities Commission*, Order Instituting Rulemaking to Revisit Net Energy Metering Tariffs Pursuant to Decision 16-01-044, and to Address Other Issues Related to Net Metering, Docket No. R.20-08-020, Opening Testimony (June 18, 2021), Rebuttal Testimony, July 16, 2021, cross-examination at hearing (July 26-27, 2021).

On behalf of CMS Energy

Before the *Michigan Tax Tribunal*, CMS Energy Corporation v. Michigan Department of Treasury, Docket No. 19-003783, affidavit, supplemental affidavit and cross-examination at deposition (2021).

On her own behalf

Before the *House Committee on Energy and Commerce* Committee Subcommittee on Energy Subcommittee Hearing on "The CLEAN Future Act and Electric Transmission: Delivering Clean Power to the People," June 29, 2021.

On her own behalf

Before the *Federal Energy Regulatory Commission*, Workshop on the Office of Public Participation, April 16, 2021.

On her own behalf

Before the *House Committee on Science, Space and Technology*, hearing on "Lessons learned from the Texas blackouts: Research needs for a secure and resilient grid," March 18, 2021.

On her own behalf

Before the Federal Energy Regulatory Commission, Technical Conference on Carbon Pricing in Organized Wholesale Electricity Markets, Docket No. AD20-14-000, September 30, 2020.

Pacific Gas and Electric Company

Before the Federal Energy Regulatory Commission, in the Matter of Pacific Gas and Electric Company's Wholesale Distribution Tariff Rate Case, Docket ER20-2878-000, Testimony, September 15, 2020; cross-examination at hearing, March 9, 2023.

Santee Cooper

Before the Court of Common Pleas for the Ninth Judicial Circuit of South Carolina, City of Goose Creek v. South Carolina Public Service Authority, Civil Action No. 2020-CP-08-00821, Affidavit, August 24, 2020.

Amicus Curiae Brief of Susan Tierney in Support of Petitioners the Environmental Defense Fund in Support of Reversal of the Challenged Orders of the Federal Energy Regulatory Commission

Before the *U.S. Court of Appeals for the District of Columbia Circuit,* in the case of Environmental Defense Fund v. Federal Energy Regulatory Commission, Case Nos. 20-1016 and 20-1017, Petition for Review of Orders of the Federal Energy Regulatory Commission, July 1, 2020.

On her own behalf

Before the House Energy *Subcommittee of the House Energy and Commerce Committee*, at hearing on the Natural Gas Act, February 5, 2020.

■ La Plata Electric Association

Before the *Colorado Public Utilities Commission*, in the matter of La Plata's and United Power's complaints that the Tri-State Generation and Transmission Association's exit fee is unjust, unreasonable and discriminatory, Proceeding Nos. 19F-0620E and 19F-0621E, Testimony, January 10, 2020; Cross-Examination at Deposition, January 31, 2020; Rebuttal Testimony, March 10, 2020; Cross-Examination at hearings, May 18, 2020.

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Delta Montrose Electric Association

Before the *Colorado Public Utilities Commission*, in the matter of Delta-Montrose's complaint that the Tri-State Generation and Transmission Association's exit fee is unjust, unreasonable and discriminatory, Proceeding No. 18F-0866E, Rebuttal Testimony, June 28, 2019.

Transource Maryland LLC

Before the *Maryland Public Service Commission*, in the matter of Transource's request for a certificate of public convenience and necessity to construct new high-voltage transmission facilities in Maryland, Case No. 9471, rebuttal testimony, May 8, 2019, and testimony under cross-examination at hearing before the Maryland PSC, June 24, 2019.

On her own behalf

Before the *Senate Energy and Natural Resources Committee*, at hearing on the electric industry in a changing climate, oral and written testimony, March 5, 2019.

Commonwealth Edison Company (ComEd)

Before the *Illinois Commerce Commission*, in the matter of ComEd's petition concerning the annual formula rate update and revenue requirement (on regulatory policy issues relating to two battery energy storage systems proposed to be part of ComEd's distribution services), Docket No. 18-0808, surrebuttal testimony, August 29, 2018.

Pacific Gas & Electric Company, San Diego Gas & Electric Company, Southern California Edison Company

Before the *California Public Utility Commission*, in the matter of the Order Instituting Rulemaking to Oversee the Resource Adequacy Program, Consider Program Refinements, and Establish Annual Local and Flexible Procurement Obligations for the 2019 and 2020 Compliance Years, Rulemaking 17-09-020, July 10, 2018.

Dominion Energy Nuclear Connecticut

Before the *Connecticut Public Utilities Regulatory Authority*, in the matter of implementation of Public Act 17-3, Docket No. 18-05-04, May 2018; testimony under cross-examination, August 2018.

Dominion Energy Nuclear Connecticut

Before the *Connecticut Department of Energy & Environmental Protection and Public Utilities Regulatory Authority*, in the matter of DEEP's and PURA's joint proceeding to implement the Governor's Executive Order Number 59, Docket No. 17-07-32; affidavit, January 8, 2018.

Amici Curiae Brief of Independent Economists in Support of New York State Public Service Commission

Before the *U.S. Court of Appeals for the Second Circuit*, in the matter of the Coalition for Competitive Electricity, et al., v. Zibelman et al., Case No. 17-2654-cv, On Appeal from a Final Judgment of the United States District Court for the Southern District of New York, No. 16-cv-8164 (VEC), November 22, 2017.

Commonwealth Edison Company (ComEd)

Before the *Illinois Commerce Commission*, in the matter of ComEd's petition concerning the implementation of a demonstration distribution migrogrid, Docket No. 17-0331, rebuttal testimony submitted October 27, 2017; surrebuttal testimony, November 20, 2017.

On her own behalf

Before the *House Committee on Energy and Commerce, Subcommittee on Energy,* Hearing on "Powering America: Defining Reliability in a Transforming Electricity Industry, October 3, 2017 (testimony dated September 12, 2017, the original date of the hearing).

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 NorthStar Decommissioning Holdings, LLC, NorthStar Nuclear Decommissioning Company, LLC, NorthStar Group Services, Inc., LVI Parent Corp., NorthStar Group Holding, LLC, Entergy Nuclear Vermont Investment Company, and Entergy Nuclear Operations, Inc.
 Before the Vermont Public Service Board, in the matter of the Joint Petition to transfer ownership of

Entergy Nuclear Vermont Yankee, LLC, Docket No. 8880, December 16, 2016.

- Entergy Nuclear Indian Point 2, LLC, Entergy Nuclear Indian Point 3, LLC, Entergy Nuclear FitzPatrick, LLC, and Entergy Nuclear Operations, Inc.
 - Before the *New York Public Service Commission*, in the matter of the Proceeding on Motion of the Commission to Implement a Large-Scale Renewable Program and a Clean Energy Standard, Case 15-E-0302, Affidavit of Susan Tierney Regarding the Staff White Paper on a Clean Energy Standard, April 21, 2016.
- Amici Curiae Brief of Former State Environmental and Energy Officials in Support of the U.S. Environmental Protection Agency
 - Before the *U.S. Court of Appeals for the District of Columbia Circuit,* in the case of State of West Virginia v. U.S. EPA, Case No. 15-1363, Petition for Review of a Final Agency Action of the U.S. EPA 80 Fed. Reg. 64,662, April 1, 2016.
 - Environmental and Public Health Respondent-Intervenors (Natural Resources Defense Council, Environmental Defense Fund, Sierra Club, Center for Biological Diversity, American Lung Association, Clean Air Council, Clean Wisconsin, Conservation Law Foundation, and Ohio Environmental Council, West Virginia Highlands Conservancy, Ohio Valley Environmental Coalition, Coal River Mountain Watch, Kanawha Forest Coalition, Mon Valley Clean Air Coalition and Keepers of the Mountains Foundation)

Before the *U.S. Court of Appeals for the District of Columbia Circuit*, Nos. 15-1365 and Consolidated Cases, in Re: West Virginia, et al., on Petitions for the U.S. Environmental Protection Agency, prepared declaration, December 8, 2015.

- New England Power Generators Association (NEPGA)
 - Before the *Massachusetts Joint Committee on Telecommunications, Utilities and Energy,* Hearing on Clean Energy Procurement, Transmission and Financing, Statement on SB 1965 (An Act relative to energy sector compliance with the Global Warming Solutions Act), September 29, 2015
- Natural Resources Defense Council, Environmental Defense Fund, Sierra Club, Center for Biological Diversity, Clean Air Council, Clean Wisconsin, and Conservation Law Foundation Before the U.S. Court of Appeals for the District of Columbia Circuit, Nos. 15-1277 & 15-1284 in Re: West Virginia, et al., and in Re: Peabody Energy Corp., on Petitions for Extraordinary Writ, prepared declaration, August 31, 2015.
- Pepco Holdings, Inc., and its operating affiliates, Potomac Electric Power Company, Delmarva Power & Light Company, and Atlantic City Electric Company

Before the *Federal Energy Regulatory Commission*, in Delaware Division of Public Advocate, *et al.*, v. Baltimore Gas and Electric Company and Pepco Holdings Inc., Docket No. EL13-48-000, April 3, 2013; prepared answering testimony, June 2, 2015; and prepared cross-answering testimony, August 21, 2015.

Hawaii Gas Company

Before the *Public Utilities Commission of Hawaii*, in the Matter of the Application of Hawaiian Electric Company, Inc., Hawaii Electric Light Company, Inc., Maui Electric Company, Limited, and NextEra Energy, Inc., for Approval of the Proposed Change of Control and Related Matters, Docket No. 2015-0022, answering and direct testimony filed July 20, 2015, rebuttal testimony, October 5, 2015. Cross-examination under oath, February 9, 2016.

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Delaware Department of Natural Resources and Environmental Control

Before the *Superior Court of the State of Delaware in and for Sussex County*, C.A. No. S13C-12-025 RFS, in Re: David T. Stevenson, et al., v. Delaware Department of Natural Resources and Environmental Control and David S. Small, prepared affidavit, July 15, 2015, prepared affidavit, September 8, 2016; prepared affidavit, June 7, 2016; prepared affidavit, June 2, 2017; deposition, August 9, 2017; testimony at trial, December 4, 2017.

On her own behalf

Before the House Committee on Science, Space and Technology, Subcommittee on the Environment and Subcommittee on Energy, Hearing on the U.S. Energy Information Administration Report: Analysis of the EPA's Clean Power Plan, June 24, 2015.

Baltimore Gas and Electric, Pepco Holdings Inc. and PHI's affiliates Pepco, Delmarva Power, and Atlantic City Electric

Before the Federal Energy Regulatory Commission, in the Matter of Delaware Division of the Public Advocate, et. al., v. Baltimore Gas and Electric Company, et al, Docket Nos. EL13-48-001 and EL15-27-000 (Consolidated), June 2, 2015.

On her own behalf

Before the *House Committee on Commerce and Energy*, Subcommittee on Energy and Power, Hearing to Examine EPA's Proposed 111(d) Rule for Existing Power Plants and the Proposed Ratepayer Protection Act, April 14, 2015.

Exelon Generating Company LLC

Before the *Massachusetts Energy Facilities Siting Board* for Approval to Construct a 200 MW Simple Cycle Combustion Turbine Generating Facility in the Town of Medway, Massachusetts, Exelon West Medway, LLC/Exelon West Medway II, LLC, EFSB Docket No. 15-1/D.P.U. 15-25, March, 2015; cross-examination under oath, December 8, 9, and 14, 2015.

On her own behalf

Before the *House Committee on Investigations and Government Oversight*, Subcommittee on Interior, Hearing to Examine the Impacts of EPA Air and Water Regulations on the States and the American People, February 26, 2015.

Exelon Corporation and Pepco Holdings, Inc.

Before the *District of Columbia Public Service Commission*, In the Matter of the Merger of Exelon Corporation and Pepco Holdings, Inc., prefiled direct testimony (June 18, 2014); rebuttal testimony (December 17, 2014); testimony under cross-examination (April 8, 2015); direct testimony in support of Settlement Agreement, October 20, 2015; testimony under cross-examination, December 4, 2015.

On her own behalf

Before the Federal Energy Regulatory Commission, Technical Conference on Environmental Regulations and Electric Reliability, Wholesale Electricity Markets, and Energy Infrastructure, Docket No. AD15-4-000, February 19, 2015.

Exelon Corporation and Pepco Holdings, Inc.

Before the *Maryland Public Service Commission*, In the Matter of the Merger of Exelon Corporation and Pepco Holdings, Inc., prefiled direct testimony (August 19, 2014); rebuttal testimony (January 7, 2015); testimony under cross-examination (January 26–27, 2015); post-settlement testimony (March 27, 2015); supplemental post-settlement testimony (April 14, 2015); testimony under cross-examination (April 15, 2015).

Algonquin Gas Transmission and Maritimes & Northeast Pipeline (Spectra Energy) Before the Maine Public Utilities Commission, Investigation of Parameters for Exercising Authority

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Pursuant to the Maine Energy Cost Reduction Act, 35-A M.R.S.A. § 1901, Docket No. 2014-00071, testimony under cross-examination, July 11, 2014, and August 8, 2014.

Exelon Corporation and Pepco Holdings, Inc.

Before the *Delaware Public Service Commission*, In the Matter of the Merger of Exelon Corporation and Pepco Holdings, Inc., prefiled direct testimony (June 27, 2014), rebuttal testimony (January 12, 2015).

Exelon Corporation and Pepco Holdings, Inc.

Before the *New Jersey Board of Public Utilities*, In the Matter of the Merger of Exelon Corporation and Pepco Holdings, Inc., prefiled direct testimony (June 27, 2014), rebuttal testimony (December 10, 2014)

Exelon Corporation and Pepco Holdings, Inc.

Before the *District of Columbia Public Service Commission*, In the Matter of the Merger of Exelon Corporation and Pepco Holdings, Inc., prefiled direct testimony (June 18, 2014), rebuttal testimony (December 17, 2014).

On her own behalf

Before the *Oregon State Legislature*'s House Interim Committee on Revenue, Senate Interim Committee on Finance and Revenue, on "Consideration of the Feasibility and Implications of a Clean Air Tax or Fee in Oregon: Implementing Greenhouse Gas Emission Reduction Policies – Experience from Other States," January 15–16, 2014.

On her own behalf

Before the *U.S. House of Representatives Energy and Commerce Subcommittee on Energy and Power,* "Hearing on EPA's Proposed GHG Standards for New Power Plants and H.R. _, Whitfield- Manchin Legislation," November 14, 2013.

Joshua Epel, James Tarpey, and Pamela Patton, et al.

Before the *U.S. District Court of the State of Colorado*, on behalf of Joshua Epel, James Tarpey, and Pamela Patton (commissioners of the Colorado Public Utilities Commission), and Environment Colorado, Conservation Colorado Education Fund, Sierra Club, The Wilderness Society, Solar Energy Industries Association, and Interwest Energy Alliance, in re: *American Tradition Institute and Rod Lueck, v. Epel at al.*, Civil Action Number 11-cv-00859-WJM-BMB, expert report, November 7, 2013.

On her own behalf

Before the *Federal Energy Regulatory Commission*, in the Matters of Centralized Capacity Markets in Regional Transmission Organizations and Independent System Operators," Docket No. AD13-7-000, re: considerations for the future, September 9, 2013.

On behalf of Entergy Nuclear Vermont Yankee

Before the *U.S. District Court, District of Vermont,* in Central Vermont Public Service Corporation and Green Mountain Power Corporation v. Entergy Nuclear Vermont Yankee, Docket No. 2:12-cv-10- wks, expert report, May 8, 2013.

■ Environmental Defense Fund and North Carolina Sustainable Energy Association Before the *Public Utilities Commission of North Carolina*, Docket E-7, SUB 1032, August 7, 2013.

Advanced Energy Economy Ohio

Before the *Ohio Senate Public Utilities Committee* in support of the Ohio Energy Efficiency Resource Standard, April 9, 2013.

Pepco Holdings, Inc., and its operating affiliates, Potomac Electric Power Company, Delmarva Power & Light Company, and Atlantic City Electric Company

Before the Federal Energy Regulatory Commission, in Delaware Division of Public Advocate, et. al., v.

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Baltimore Gas and Electric Company and Pepco Holdings Inc., Docket No. EL13-48-000, April 3, 2013.

Major engineering, construction and project-management company

Prepared an expert report on electric market conditions in a dispute surrounding cancellation of a major power plant, 2012.

Baltimore Gas and Electric Company

Before the *Federal Energy Regulatory Commission*, in Delaware Division of Public Advocate, et al., v. Baltimore Gas and Electric Company and Pepco Holdings Inc., Docket No. EL13-48-000, April 3, 2013.

NSTAR Electric Company and Cape Wind LLC

Before the *Massachusetts Department of Public Utilities*, in the Petition of NSTAR Electric Company for Approval of a Proposed Long-Term Contract for Renewable Energy with Cape Wind Associates, LLC Pursuant to St. 2008, c. 169, §83, Prefiled Direct Testimony, March 30, 2012; testimony under cross-examination, August 2, 2012.

Pacific Gas and Electric Company

Before the *California Public Utilities Commission*, in the Rulemaking on the Commission's Own Motion to Adopt New Safety and Reliability Regulations for Natural Gas Transmission and Distribution Pipelines and Related Ratemaking Mechanisms, Rulemaking 11-02-019, Rebuttal Testimony filed on February 28, 2012; testimony under cross-examination, March 20, 2012.

COMPETE Coalition

Before the *New Jersey Board of Public Utilities*, In the Matter, In the Matter of the Board's Investigation of Capacity Procurement and Transmission Planning, Docket No. EO11050309, October 14, 2011.

On her own behalf

Before the *U.S. House Energy and Commerce Committee*, Subcommittee on Energy and Power, EPA Regulations and Electric System Reliability, September 14, 2011.

On her own behalf

Before the *U.S. Senate Environment and Public Works Committee*, Subcommittee on Clean Air and Nuclear Safety, June 30, 2011, Oversight Hearing: Review of EPA Regulations Replacing the Clean Air Interstate Rule (CAIR) and the Clean Air Mercury Rule (CAMR).

Exelon Corporation and Constellation Energy Group

Before the *Maryland Public Service Commission*, In the Matter of the Merger of Exelon Corporation and Constellation Energy Group, Case No. 9271, prefiled direct testimony (May 25, 2011); rebuttal testimony (October 12, 2011), supplemental testimony (December 15, 2011), testimony under cross- examination (November 10, 2011, January 25, 2012).

New England Power Generators Association

Before the *Massachusetts Public Utilities Commission*, In the Matter of the Joint Petition for Approval of Merger [of Northeast Utilities and NSTAR] Pursuant to G.L. c. 164, § 96, Docket D.P.U. 10-170, prefiled direct testimony (May 20, 2011); testimony under cross-examination (July 15 and 18, 2011).

Commonwealth Edison Company

Before the *Illinois Commerce Commission*, Investigation of Proposed General Increase in Electric Rates of Commonwealth Edison Company, Docket No. 10-0467, ComEd Exhibit 13.0, prefiled direct testimony (filed June 30, 2010); rebuttal testimony (filed November 22, 2010); surrebuttal testimony (filed January 2, 2011), testimony under cross-examination (January 18, 2011).

National Grid: Massachusetts Electric Company and Nantucket Electric Company

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Before the *Massachusetts Department of Public Utilities*, Investigation as to the Petition of Massachusetts Electric Company and Nantucket Electric Company each d/b/a National Grid for approval by the Department of Public Utilities of two long-term contracts to purchase wind power and renewable energy certificates, pursuant to G.L. c. 169, § 83 and 220 C.M.R. § 17.00 et seq. – Docket D.P.U. 10-54 (the Cape Wind contract proceeding), prefiled direct testimony (filed June 4, 2010), rebuttal testimony (filed September 1, 2010), testimony under cross examination (September 8, 13, 14, 23, 24, 2010).

National Grid: Boston Gas Company, Essex Gas Company, Colonial Gas Company

Before the *Massachusetts Department of Public Utilities*, Investigation as to the Propriety of Proposed Tariff Changes, Docket No. D.P.U. 10-55, prefiled direct testimony (filed April 16, 2010); testified under cross-examination, June 28–29, 2010.

National Grid: EnergyNorth Natural Gas, Inc., d/b/a National Grid NH

Before the *New Hampshire Public Utilities Commission*, Investigation as to the Propriety of Proposed Natural Gas Tariff Changes, Docket DG 10-017, prefiled direct testimony (filed February 26, 2010).

National Grid: Niagara Mohawk Power Corporation

Before the *New York Public Service Commission*, Investigation as to the Propriety of Proposed Electric Tariff Changes, Docket No. 10-E-0050, prefiled direct testimony (filed January 29, 2009), rebuttal testimony (filed August 2010).

National Grid: Narragansett Electric Company

Before the *Rhode Island Public Utilities Commission*, Investigation as to the Propriety of Proposed Tariff Changes, Docket No. R.I.P.U.C. 4065, prefiled direct testimony (filed June 1, 2009; testimony under cross-examination, November 4, 2009).

National Grid: Massachusetts Electric Company and Nantucket Electric Company

Before the *Massachusetts Department of Public Utilities*, Investigation as to the Propriety of Proposed Tariff Changes, Docket No. D.P.U. 09-39, prefiled direct testimony (filed May 15, 2009; testimony under cross-examination, August 7 and 25, 2009, and September 8, 2009).

Amerada Hess Corp., et al.

Before the *District Court of the United States for the Southern District of New York,* on behalf of Amerada Hess Corp., et al., in *City of New York v. Amerada Hess Corp. et al.*, Case No. 1:00-1898, testimony in deposition, May 12, 2009.

State of North Carolina

Before the *District Court of the United States for the Western District of North Carolina*, on behalf of North Carolina in *State of North Carolina*, ex rel. Roy Cooper, Attorney General, v. Tennessee Valley Authority, Case No. 1:06CV20, testimony in deposition, May 17, 2007; testimony at July 22, 2008.

KeySpan Energy Delivery (National Grid)

Before the *Massachusetts Appellate Tax Board*, Boston Gas Company, d/b/a KeySpan Energy Delivery New England v. City of Boston, Docket No. F275055-F275056 (FY 2004), F279207-F279208 (FY 2005), F284088-F286194 (FY 2006), testimony and cross-examination, May 20–21, 28, June 4, 2008.

Commonwealth Edison Company

Before the *Illinois Commerce Commission*, Investigation of Proposed General Increase in Electric Rates of Commonwealth Edison Company, Docket No. 07-0566, ComEd Exhibit 18.0, prefiled rebuttal testimony (filed April 12, 2008).

Sierra Pacific Power Company

Before the *Public Utilities Commission of Nevada*, In the Matter of the Application of Sierra Pacific Power, filed pursuant to NRS 704.110(3), for authority to increase its general rates charged to all classes of electric customers to reflect an increase in annual revenue requirement, Docket No. 07-12 (filed

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December 3, 2007), Prefiled Direct Testimony; cross examination, April 17–18, 2008.

Amerada Hess Corp., et al.

Before the *District Court of the United States for the Southern District of New York*, on behalf of Amerada Hess Corp., et al., in *County of Suffolk and Suffolk County Water Authority v. Amerada Hess Corp. et al.*, Case No. 1:00-1898, testimony filed October 1, 2007.

Sempra Energy Company – San Diego Gas & Electric Company and SoCalGas Company Before the California Public Utility Commission, Order Instituting Rulemaking to Examine the Commission's post-2005 Energy Efficiency Policies, Programs, Evaluation, Measurement and Verification and Related Issues, Rulemaking Docket 06-04-010 (Filed April 13, 2006), testimony filed May 3, 2007, cross examination, May 29, 2007.

Commonwealth Edison Company

Before the *Illinois Commerce Commission*, Investigation of Rider CPP of Commonwealth Edison Company, and Rider MV of Central Illinois Light Company d/b/a AmerenCILCO, of Central Illinois Public Service Company d/b/a/ AmerenCIPS, and of Illinois Power Company d/b/a Ameren IP, pursuant to Commission Orders regarding the Illinois Auction, Docket No. 06-0800, testimony filed April 6, 2007; cross-examination, April 24, 2007.

PECO Energy Company

Before the *Pennsylvania Public Utility Commission*, Petition of PECO for Approval of (1) a Process to Procure Alternative Energy Credits During the AEPS Banking Period, and (2) A Section 1307 Surcharge and Tariff to Recover AEPS Costs, Prefiled Direct Testimony, March 19, 2007.

Masspower

Before the *Superior Court Department of Suffolk County*, Massachusetts, Massachusetts Municipal Wholesale Electric Company v. Masspower, et al., Civil No. 05-02710 (BLS1), on the changes in conditions in the electric industry in New England as they relate to Masspower's performance under its power supply agreement with MMWEC; Expert Report, September 11, 2006; oral testimony under cross examination at trial, October 16–17, 2006.

Commonwealth Edison Company

Before the *Illinois Commerce Commission*, Proposed general increase in electric rates, general restructuring of rates, price unbundling of bundled service rates, and revision of other terms and conditions of service, Docket No. 05-0597, Rebuttal Testimony, January 30, 2006; Surrebuttal Testimony, March 14, ,2006; oral testimony under cross-examination, March 23, 2006. Testimony on rehearing, September 20, 2006.

Commonwealth Edison Company

Before the *Illinois House of Representatives, Electric Utility Oversight Committee,* on the Pay-as-Bid versus Uniform Price Auction Approach To Procurement of Wholesale Power for ComEd's Full-Requirements Customers, January 18, 2006, Springfield, Illinois.

Louisville Gas & Electric Company and Kentucky Utilities Company

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• Sithe New England (Sithe Edgar LLC, Sithe New Boston LLC, Sithe Framingham LLC, Sithe West Medway LLC, Sithe Mystic LLC)

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Baldick, Ross, Ashley Brown, James Bushnell, Susan Tierney, and Terry Winter, "A National Perspective on Allocating the Costs of New Transmission Investment: Practice and Principles," A White Paper Prepared by The Blue Ribbon Panel on Cost Allocation for WIRES, the Working group for Investment in Reliable and Economic electric Systems, September 2007.

Tierney, Susan, "Adaptation and the Energy Sector," National Summit on Coping with Climate Change, University of Michigan, Ann Arbor, May 8–10, 2007.

Tierney, Susan, and Edward Kahn, "A Cost-Benefit Analysis of the New York Independent System Operator: The Initial Years," March 2007.

Tierney, Susan, and Paul Hibbard, "Market Monitoring at U.S. RTOs: A Structural Review," March 2007 (Appendix 17 of PJM 2007 Strategic Report, April 2, 2007).

"A Cost-Benefit Assessment of Wholesale Electricity Restructuring and Competition in New England," Coauthored with Dr. Matthew Barmack and Dr. Edward Kahn, *Journal of Regulatory Economics*, 2007, vol. 31, Issue 2, pages 151–184.

Tierney, Susan, "Recollections of a State Regulator," NRRI 30th Anniversary, *Journal of Applied Regulation*, Volume 4, December 2006.

Barmack, Matthew, Edward Kahn, Susan Tierney, and Charles Goldman, "A Regional Approach to Market Monitoring in the West," Prepared the Western Interstate Energy Board Committee on Regional Electric Power Cooperation and Office of Electricity Delivery and Energy Reliability, Department of Energy, LBNL-61313, October 2006.

"Electric Reliability," letter to the Editor, Issues in Science and Technology, Fall 2006, Forum.

Report to the Massachusetts Special Commission Relative to Liquefied Natural Gas Facility Siting and Use, June 2006.

"Energy Policy Act Section 1813 Comments: Report of the Ute Indian Tribe of the Uintah and Ouray Reservation for Submission to the U.S. Departments of Energy and Interior," Coauthored with Paul J. Hibbard, In Cooperation With The Ute Indian Tribe of the Uintah and Ouray Reservation, May 15, 2006.

"In support of a Sound plan," Op Ed Coauthored with John DeVillars, Boston Globe, April 23, 2006.

"Let's Talk About the Weather: Interview with Susan Tierney on climate change risks that corporate boards should know about and address," *Corporate Board Member Magazine*, January/February 2006.

"New England Energy Infrastructure – Adequacy Assessment and Policy Review," White Paper prepared for the New England Energy Alliance; Coauthored with Paul J. Hibbard November 2005.

"New energy bill doesn't do enough." Op Ed, Boston Globe, July 29, 2005.

"The Benefits of New LNG Infrastructure in Massachusetts and New England: The Northeast Gateway Project," Prepared for Northeast Gateway Energy Bridge, L.L.C., and Algonquin Gas Transmission, LLC,

White Paper Coauthored with Paul. J. Hibbard, June 2005.

"Principles for Market Monitoring and Mitigation in PJM: A Review of Economic Principles, Legal and Regulatory Structures, and Practices of Other Regions, with Recommendations," White Paper prepared for PJM Interconnection, January 3, 2005.

"Keeping the Power Flowing: Ensuring a Strong Transmission System to Support Consumer Needs For Cost-Effectiveness, Security and Reliability – A Report of the Transmission Infrastructure Forum of the Consumer Energy Council of America," Coauthored the report with CECA staff for this CECA Transmission Infrastructure Forum, January 2005.

Signatory to "Ending the Energy Stalemate: A Bipartisan Strategy to Meet America's Energy Challenges, Summary of Recommendations," National Commission on Energy Policy, December 2004.

"Comments of Susan F. Tierney and Paul. J. Hibbard on their own behalf," before the *Federal Energy Regulatory Commission, in the Matters of Solicitation Processes for Public Utilities (Docket No. PL04-6-000) and Acquisition and Disposition of Merchant Generation Assets by Public Utilities (Docket No. PL04-9-000),* on the role of independent monitors in public utility resource solicitations, July 1, 2004.

"Energy and Environmental Policy in the United States: Synergies and Challenges in the Electric Industry" (with Paul J. Hibbard), prepared for Le Centre Français sur les Etats-Unis (The French Center on the United States), July 2003; presentation in Paris, October, 2003.

"Supplemental Report on the Benefits of New Gas Infrastructure in New England: The Everett Extension Project" (with Charles Augustine), prepared for Algonquin Gas Transmission Company, February 5, 2003.

"The Political Economy of Long-Term Generation Adequacy: Why an ICAP Mechanism Is Needed as Part of Standard Market Design" (with Janet Gail Besser and John Farr), *The Electricity Journal*, August/September 2002.

"Siting Power Plants in the New Electric Industry Structure: Lessons California and Best Practices for Other States" (with Paul J. Hibbard), *The Electricity Journal*, June 2002.

"Maritimes Phase III & Algonquin Hubline: 'Coastal Dependency'" CZM Consistency Review, May 2002.

"Siting Power Plants: Recent Experience in California and Best Practices in Other States" (with Paul J. Hibbard), prepared for The Hewlett Foundation and The Energy Foundation, February 2002.

"Economic and Environmental Benefits of the Kings Park Energy Project: System Production Modeling Report" (with Joseph Cavicchi), prepared for PPL Global, January 25, 2002.

"The Benefits of New Gas Infrastructure in New England: The Maritimes & Northeast Phase IV Pipeline Project" (with Charles Augustine), prepared for Maritimes & Northeast Pipeline, LLC, January 2002.

"Activating Ontario's Capacity Market: Design and Implementation Issues" (with Janet Gail Besser and John Farr), prepared for Sithe Energies, Inc., October 24, 2001.

White paper on "Ensuring Sufficient Capacity Reserves in Today's Energy Markets" (with Janet Gail Besser and John Farr), prepared for submission as part of comments filed by Sithe Power Marketing LLC, Sithe New England Holdings, FPL Energy LLC, in FERC Docket No. EX01-1-000, October 17, 2001.

"The Rationale and Need for Capacity Obligations and a Capacity Market in a Restructured Ontario Electricity Industry" (with Janet Gail Besser & John Farr), prepared for Sithe, September 27, 2001.

"Economic and Environmental Benefits of the Wawayanda Energy Center: System Production Modeling Report" (with Joseph Cavicchi), prepared for Wawayanda Energy Center, LLC, August 24, 2001.

"A Better CO2 Rule," op-ed, The New York Times, May 16, 2001.

"Air Pollution Reductions Resulting from the Kings Park Energy Project" (with Joseph Cavicchi), prepared for PPL Global, January 24, 2001.

"Report on "Economic Benefits of Wireless Telecommunications," prepared on behalf of the N.H. Coalition of Wireless Carriers for the New Hampshire HB 733 Study Committee, November 13, 2000.

Expert Report: "Public Benefits of the Proposed Cross Sound Cable Project Prepared for TransÉnergie U.S. Ltd.," July 2000.

"The Benefits of New Gas Infrastructure in Massachusetts and New England: The Maritimes & Northeast Phase III Pipeline and the Algonquin Gas Transmission Company HubLine Projects" (with Wayne Oliver of Navigant Consulting), prepared for Maritimes & Northeast Pipeline, LLC and Algonquin Gas Transmission Company, October 2000.

"Production Modeling for the Astoria Project: Report on Results" (with John G. Farr), report for SCS Energy Corp., June 14, 2000.

"Observations from Across the Border: Implications for Canadian Reliability of Recent Changes in U.S. Electricity Markets and Policy," white paper for Natural Resources Canada, 1999.

"Research Support for the Power Industry" (with M. Granger Morgan), *Issues in Science and Technology*, Fall 1998.

"Maintaining Reliability in a Competitive U.S. Electricity Industry," Final Report of the Task Force on Electric System Reliability, U.S. Department of Energy, September 29, 1998.

"Regional Issues in Restructuring the Electric Industry," *The Electricity Industry Briefing Papers*, The National Council on Competition and the Electric Industry, April 1998.

"Fueling the Future: America's Automotive Alternatives" (with Philip Sharp), The American Assembly, Columbia University, Arden House, NY, September, 1995.

"Needed: Broad Perspective, Fresh Ideas," guest editorial, *The Electricity Journal*, November 1994. Foreword in J. Raab, *Using Consensus Building to Improve Utility Regulation*, American Council for an Energy-Efficient Economy, Washington, D.C., 1994.

"Massachusetts' Pre-Approval Approach to Prudence in Massachusetts," Electricity Journal, December 1990.

"Using Existing Tools to Pry Open Transmission—A New England Proposal," *Electricity Journal*, April 1990.

"Sustainable Energy Strategy: Clean and Secure Energy for a Competitive Economy" (directed), National Energy Policy Plan, July 1995.

"Siting Needs: Issues and Options," U.S. Department of Energy, June 1993.

"The Nuclear Waste Controversy," in D. Nelkin, *Controversy: The Politics of Technical Decisions*, Sage, 1977; 1984 (second edition).

Kenneth Kraemer, Siegfried Dickhoven, John Leslie King, Susan Fallows Tierney, *Datawars*, Columbia University Press, 1987.

"The Evolution of the Nuclear Debate: Role of Public Participation," Annual Review of Energy, 1978.

RECENT SPEECHES AND PRESENTATIONS IN THE PAST 10 YEARS

"The Spark of Innovation: Exploring Decarbonization from Electrification," IEEE PES Conference, Anaheim, May 8, 2024.

"The State-RTO Partnership: Policies, Markets, Reliability, and the Energy Transition," Northwestern University Electricity Dialogue," Chicago, April 23, 2024.

"The Future of Fossil Fuels in a Decarbonized United States," Resources Radio podcast, March 26, 2024.

"Accelerating Decarbonization in the US," The Energy Transition Show podcast, February 21, 2024.

"What's Really Needed to Cut U.S. Emissions Faster This Decade?" Electrify This! podcast, February 9, 2024.

"Reality Check on Policy and Markets," Aspen Institute Winter Energy Forum, February 6, 2024.

"Energy Grid Infrastructure: Progress and Impediments to Sustainability," Cosmos Club Climate Change Mitigation and Adaptation Group and Economics Group, Washington DC, February 6, 2024.

"The Electric Power Sector: Context for Climate Pollution Reduction Grants," Environmental Protection Agency Technical Assistance Forum, December 13, 2023.

"Weather, Markets, and Reliability: Harmonizing the Gas and Electric Industries," Northwestern University Electricity Dialogue, Chicago, October 5, 2023.

"Rate Design for Electrification and Activating Demand," New England Roundtable, March 24, 2023.

"Net Zero America," National Association of Regulatory Utility Commissioners, November 7, 2021.

"Transmission's Critical Role in Decarbonizing New England," New England Electricity Restructuring Roundtable, September 24, 2021.

"Wholesale Electricity Markets," National Governors Association, September 23, 2021.

Expert Panel on "Greenhouse Gases - Where are they from, why do they matter, and can they be reduced?" America in One Room: Climate and Energy - Deliberative Polling Event (Stanford University), September 2021.

"Improving Electricity Transmission Siting Opportunities to Meet America's Consumer, Economic, Clean Energy and Climate Goals," Progressive Policy Institute, September 14, 2021.

"Energy Transitions: Agency of Change, Changing Agents," UT Energy Week, 2021, University of Texas Energy Institute, April 2021.

Briefings on the National Academies' study on The Future of Electric Power, February-March 2021.

Briefings on the National Academies' study on Decarbonizing the U.S. Energy System, February-March 2021.

"Wholesale Electricity Markets: Resource Adequacy," Future Power Markets Forum, Johns Hopkins and Columbia University Center for Global Energy Policy, February 5, 2021.

"Wholesale Power Market Design in a Future Low-Carbon Electric System," WRI-RFF Workshop, December 16, 2020, https://www.rff.org/events/workshops/market-design-for-the-clean-energy-transition-advancing-long-term-approaches/.

"Introduction to the Theory and Practice of Regulation: The Coming Utility Transition," NRRI Regulatory Training Initiative," November 9, 2020, https://www.youtube.com/watch?v=OqVv1KEK5ko.

"Opportunities for Governors to Leverage or Align Electricity Markets to Meet State Energy Goals," National Governors Association, October 29, 2020, https://www.nga.org/center/meetings/strategies-meet-clean-energy-goals/.

"New York's Path to a Carbon Free Future," City and State New York, September 17, 2020, https://www.cityandstateny.com/events/nys-path-carbon-free-future.

"Energy Stimulus: Investing in the Power Grid of the Future," Irving Institute, Dartmouth College, July 14, 2020.

"The Future of Natural Gas in New England's Electric System? Who knows; It's complicated," New England Electricity Roundtable, June 12, 2020. http://www.raabassociates.org/main/roundtable.asp?sel=155.

"The NYISO's Carbon Pricing Proposal: Value Proposition to New York," Energy Policy Roundtable in the PJM Footprint, panel on carbon pricing, April 28, 2020. http://pjm.raabassociates.org/main/roundtable.asp?sel=159.

"Decarbonizing the Electric Power Sector," Center for Strategic and International Studies, March 30, 2020. (podcast) https://www.csis.org/events/audio-event-decarbonizing-electric-power-sector.

"Making Sense of FERC's MOPR Order," Resources for the Future Workshop, January 22, 2020.

"CEO Roundtable: The New England Investment Thesis," moderator of panel at the New England Power Generator Association's Summit, Boston, December 2, 2019.

"Government Policies Promoting Low Carbon Transitions," moderator of panel at the U.S. Association of Energy Economists, Denver, November 5, 2019.

"A Transformation of Power: The U.S. Electric Grid Undergoes Change," Energy Journalism Initiative, Center for Global Energy Policy, Columbia University, New York City, June 12, 2019.

"Trends and Issues in the Electric Industry – and Potential Implications for State AGs," New York University State Energy & Environmental Impact Center, Washington, DC, May 29, 2019.

"Electric System Planning: Mapping Opportunities for Participation by State Air Offices," National Association of Clean Air Agencies, Webinar, April 4, 2019.

"Emerging Energy and Environmental Technologies: Possibilities, Policy Implications, and Potential Consequences," Resources for the Future/Alfred P. Sloan Foundation Conference on Energy Research Insights for Decision making, Washington, DC, November 29, 2018.

"The Energy 202 Live: Powering a Cleaner and Brighter Future," Washington Post Live, November 28, 2018.

"Energy Policy: Research and analysis in an era of disruptive change," Keynote Address, Energy Policy Research Conference, Boise State University Energy Policy Institute, Boise, Idaho, September 6, 2018.

"Transitions to a Low-Carbon Electric Supply," EEI CEO meeting, Colorado Springs, September 5, 2018.

"Potential Solutions & Discussions, NERC (North American Electric Reliability Corporation), Technical Workshop on Gas Infrastructure Risk and Associated Recommendations, Atlanta, July 10, 2018.

"Economic Approaches to Understanding and Addressing Resilience in the Bulk Power System," Resources for the Future and R Street Institute Workshop, Washington, D.C., May 30, 2018; webinar, June 18, 2018.

"The Future of Nuclear Power," The Council of State Governments/Eastern Regional Conference, Northeastern Legislative Climate and Energy Summit, Andlinger Center for Energy and the Environment, Princeton University, May 11, 2018.

"The Energy 202 Live: Energy Investment for Today and Tomorrow," Washington Post Live, May 10, 2018.

"State Policies and Proposals to Support Existing Nuclear Power Plants," Center for Climate and Energy Solutions, Washington, DC, May 9, 2018.

"The Energy 202 Live: Energy Investment for Today and Tomorrow," Washington Post Live, May 10, 2018.

"The Fracking Debate: The Pros, Cons, and Lessons Learned from the U.S. Energy Boom," Energy Policy Institute of Chicago, University of Chicago, April 11, 2018.

"Power Sector Transformation: Natural Gas/Electricity Panel," Annual Meeting of the Joint Institute for Strategic Energy Analysis, National Renewable Energy Laboratory, April 5, 2018.

"The Evolution of Utility and Regulatory Reform in the U.S.," 2018 e21 Forum #1: Toward a 21st C. Electric System in Minnesota, March 20, 2018.

"The Natural Gas/Electricity Nexus," Keystone Energy Board meeting, Keystone CO, February 9, 2018.

"Critical Aspects of Transitioning to Competitive Energy Markets from a Wholesale and Retail Perspective & Renewable Energy Procurement in Restructured Markets," Committee on Energy Choice, State of Nevada, Las Vegas, November 7, 2017.

"Firm With Trump Cabinet Ties Scores \$300M Puerto Rico Power Contract," On Point radio show on restoration of Puerto Rico's electric grid, WBUR/NPR, October 25, 2017.

"Beyond Baseload? Electricity Markets and Reliability," Keystone Energy Board meeting, Washington, D.C., October 24, 2017.

"The Future of Baseload in the West," Committee on Regional Electric Power Cooperation (CREPC), Reno, October 17, 2017.

"Regulatory Paths Forward for a Clean Grid," Harvard Law School, Cambridge, October 13, 2017.

"This Thing about Coal and Nukes," Grid Geeks Podcast, October 6, 2017.

"What Do Americans Think about the Direction of Energy and Climate Policy?" EPIC, University of Chicago, October 4, 2017.

"Preparing for the Future: Challenges and Opportunities of Modernizing the Grid," NextGrid Illinois conference, Chicago, September 28, 2017.

"Designing America's Energy Future," National Renewable Energy Laboratory's 40th Anniversary meeting on energy innovation, Golden, CO, September 20, 2017.

"The Future of Power Markets in a Low Marginal Cost World: Electricity Sector Overview," Resources for the Future, September 14, 2017.

"The National Academy of Sciences Report on Electric System Resiliency: Natural Gas and Electric System Interdependencies," NAESB, September 7, 2017.

"Valuing Distributed Energy Resources," Aspen Energy Policy Forum, July 2017.

"The Road from Paris: A Conversation with the Former Secretary of Energy Ernie Moniz," Aspen Ideas Festival, July 2017.

"How Policy Choices Today Will Impact the Future of Electric Power," Edison Electric Institute, Annual Meeting, Boston, MA, June 12, 2016.

"Big Think Presentations on the Future of Retail Electricity Service," California Public Utilities Commission and California Energy Commission, Joint En Banc on Changing Nature of Consumer and Retail Choice in California, Sacramento, CA, May 19, 2017.

"Energy Resources: The Right Mix – or Mix It Up? Is What We Need Compatible With The Region's Energy Goals?" Northeast Energy and Commerce Association, Mystic, CT, May 10, 2017.

"Comments at the FERC Technical Conference on Certain Matters Relating to State Policy Initiatives Affecting Wholesale Energy and Capacity Markets Operated by Eastern Regional Transmission Organizations (RTOs) and Independent System Operators (ISOs)," Washington, D.C, May 2, 2017.

"Utility of the Future: Valuing Distributed Energy Resources," Electric Power Research Institute (Research Advisory Committee), Tempe, AZ, March 7, 2017.

"Navigating the Energy and Environmental Policy Landscape," Nicholas School for the Environment, Duke University, Washington, D.C, February 15, 2017.

"What is Next for the EPA's Carbon Regulations for Existing Power Plants?" NARUC Electricity Committee and the Energy Resources and the Environment Committee, Washington, D.C., February 14, 2017.

"Carbon: A risk or an opportunity?" NARUC Energy Resources and the Environment Committee, Washington, D.C., February 14, 2017.

"Managing the Energy Transition: Exploring Pathways to Deep Decarbonization," Bipartisan Policy Center, Washington, D.C., December 8, 2016.

"The Clean Power Plan and Beyond: What to Expect in 2017..." NYU School of Law – Institute for Policy Integrity, New York, NY, November 15, 2016.

"Location, Location, Location, and the Value of Distributed Energy Resources," NARUC Annual Meeting, La Quinta, CA, November 14, 2016.

"Value of 'DER' to 'D': The role of distributed energy resources in local electric distribution system reliability," Presentation to NARUC Committee on Electricity, November 14, 2016, La Quinta, California.

"State Electric Industry Policies and Organized Wholesale Electricity Markets," Presentation to the NYISO Environmental Advisory Council, Albany, NY, November 4, 2016.

"Existing nuclear units and potential policy solutions: Approaches in other states beyond Illinois," Chicago, IL, October 18, 2016.

"Existing Nuclear Units – and New York's Clean Energy Standard," presentation to the NARUC Energy Resources and the Environment Committee – Monthly Conference Call, September 16, 2016.

"Understanding the Evolving Trends in the Eastern Interconnect: Implications for Environmental Policies & Investments," Duke Nicholas Institute for Environmental Policy Solutions/Great Plains Institute/Bipartisan Policy Center, I, Atlanta, September 13, 2016.

"What does the U.S. need to do to meet its climate goals? Why Nuclear? How Much and How Fast?" Aspen Institute Forum on the Future of Nuclear Energy, Aspen, August 10, 2016.

Testimony of Susan F. Tierney, Ph.D. Before the Democratic Platform Committee, U.S. Progress on Clean Energy Policy, Phoenix, June 17, 2016.

"Value of "DER" to "D": The Role of Distributed Energy Resources in Local Electric Distribution System Reliability," presentation to the MidAtlantic Conference of Regulatory Utility Commissioners (MACRUC), Williamsburg, VA, June 21, 2016.

"How does New Jersey Achieve a Low-Carbon Future?" New Jersey Spotlight conference, Trenton, NJ, June 3, 2016.

"Potential federal and state actions that could help address financial risks facing many existing nuclear power plants," U.S. Department of Energy's Summit on Improving the Economics of America's Nuclear Power Plants, Washington, D.C., May 19, 2016.

"New England's Electricity 'Restructuring:' Successes, disappointments, and what's next," 150th meeting of the New England Electricity Restructuring Roundtable, Boston, MA, May 18, 2016.

"Clearing the Way: Pioneering New York's Clean Energy Standard," Albany, NY, May 11, 2016.

"Electricity markets in transition," Annual Energy Summit of Columbia University's Center for Global Energy Policy, New York, NY, April 27, 2016.

"Value of "DER" to "D": The Role of Distributed Energy Resources in Local Electric Distribution System Reliability," California Public Utility Commission's "Thought Leaders Forum," April 21, 2016.

"Transforming Power Systems: Challenges and Solutions," Annual meeting of the Joint Institute for Strategic Energy Analysis, NREL, Golden, CO, March 31, 2016.

"Background and Context: Eras of Electric Utility Industry (in 5 Minutes!)," New Orleans City Council/ Entergy New Orleans Electricity Symposium, March 22, 2016. "Affordability, Cost Containment, and Economic Development: Complying with the Clean Power Plan," 3-N meeting (NARUC, NASEO, NACAA) on How State Agencies Are Working Together, Washington D.C., February 11, 2016.

"Evaluating Clean Power Plan Pathways in a Dynamic Electricity Sector," Conference on Navigating the EPA's Clean Power Plan: Charting a Course for the Southeast, sponsored by Duke University Nicholas Institute for the Environment, Orlando, January 28, 2016.

NASEO/DOE/EIA, "2015 – 2016 Winter Energy Outlook Conference," National Press Club, Washington, D.C., October 6, 2015.

"Outlook for Energy," Clinton Foundation Global Initiative, New York, NY, September 28, 2015.

"Reactions to the Clean Power Plan," NARUC Electricity Committee, Arlington, VA, August 14, 2015.

"Trends in national climate policy," Institute for Sustainable Cities, June 18, 2015.

"EPA's Clean Power Plan and its potential effects on system reliability," Mid-American Regulatory Commissioners (MARC) Conference, Milwaukee, June 8, 2015.

"Proposed Reliability Mechanisms for the Clean Power Plan," Bipartisan Policy Center Workshop, National Press Club, Washington D.C., May 9, 2015.

"EPA's Proposed Clean Power Plan: Testing the tires, looking under the hood... How far does it take us toward a clean, modern electric system?" Cornell University, Ithaca, NY, November 2014.

"Readying States for New Greenhouse Gas Rules in the Electricity Sector," National Governors Association – Workshop for Governors' Energy Advisors, Washington, D.C., September 22, 2014,

"Natural Gas and Renewable Energy Synergies: Challenges and Opportunities," North American Energy Standards Board (NAESB), Board Meeting, Houston, September 10, 2014.

"America's Electricity Evolution: New Policies, Regulations, and Technologies Converging to Change the Future of Power Production and Use," 2014 NASEO Annual Meeting, Savannah, September 2014.

"Implications for Energy, Economy, and Environment Under the Proposal," Environmental Council of the States (ECOS), Washington D.C., July 31, 2014.

"Regional Options and Strategic Choices," NARUC Workshop on Regional Compliance Options for Sec. 111d, Washington D.C., July 28, 2014.

"111d in Big D: Compliance Options, Regional Approaches, and Where We Go from Here," NARUC, Dallas, July 16, 2014.

"The National Climate Assessment: What Risks Lie Ahead for the Energy Sector?" NARUC, Dallas, July 14, 2014.

"The EPA's new Clean Power Plan proposal: Some suggestions for state action now," National Association of Clean Air Agencies, Washington, D.C., July 13, 2014.

"Changing electric industry dynamics: The role of regulation," Aspen Institute Energy Policy Forum: Electricity Structure and Regulation, July 7, 2014.

"Natural Gas and Renewable Energy Synergies: Challenges and Opportunities," Synergies of Natural Gas and Renewable Energy: 360 Degrees of Opportunity, Center for the New Energy Economy (CNEE), Joint Institute for Strategic Energy Analysis (JISEA), Gas Technology Institute (GTI), Bloomberg New Energy Finance, New York, NY, July 1, 2014.

"EPA's Clean Power Plan," Bipartisan Policy Center, June 18, 2014.

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"GHG Emission Reductions From Existing Power Plants Under Section 111(d) of the Clean Air Act: Options to Ensure Electric System Reliability," Electricity Advisory Committee, U.S. Department of Energy, May 8, 2014.

"Climate Solutions: The role of existing nuclear power," Center for Climate and Energy Solutions, Washington, D.C., April 28, 2014.

"Electric Power Systems: The Outlook for Electric Transmission: Where You Stand Depends Upon Where You Sit," Harvard Law School, March 20, 2014.

SERVICE ON BOARDS OF DIRECTORS (PUBLIC COMPANIES, PRIVATE COMPANIES, NON-GOVERNMENTAL ORGANIZATIONS)

Chair, National Academies' Board on Energy and Environmental Systems (2023-Present); Member of the Board (2022-Present).

Chair, Resources for the Future Board of Directors (2018–Present); Member of the Board (2014-Present)

Trustee, Barr Foundation (2016–Present)

Trustee, Alfred P. Sloan Foundation (2022-present)

Advisor, Oak Foundation Board of Trustees (2022-present)

Member, Climate Leadership Initiative, Board of Directors (2022-present), Advisory Board (2019-2022)

Chair, ClimateWorks Foundation Board of Directors (2013–2022)

Member and Vice-Chair, World Resources Institute Board of Directors (2009-Present)

Chair, Energy Foundation Board of Directors (2000–2011); Vice-Chair (1999–2000); Director (1997–2011); Director (2013–2022, 2023-present)

Member, Clean Energy and Sustainability Accelerator (2022-present)

Member, Coalition for Green Capital, Board of Directors (2021-present)

Member, Keystone Center Energy Board (2016–present)

Member, Keystone Center Board of Trustees (2016–2019)

Member, Alliance to Save Energy Board of Directors (2011–2018)

Member, EnerNOC, Inc. Board of Directors (February 2010–May 2013)

Member, Evergreen Solar, Inc. Board of Directors, 2008–2011)

Member, Ze-gen Inc. Board of Directors, 2009–2011)

Member, Renegy Holdings Board of Directors, 2007–2009)

Member, Clean Air Task Force Board of Directors, 2008–2013)

Member, Catalytica Energy Systems Inc. Board of Directors (2001–2007)

Member, Climate Policy Center Board of Directors (2001–2007)

Member, NorthEast States Center for a Clean Air Future, Board of Directors (1998–2010)

Chair, Clean Air-Cool Planet / Climate Policy Center Board of Directors (2004-2009); Director (1999-2014)

Member, ACORE (American Council on Renewable Energy) Board of Directors (2006–2007)

Member, Electric Power Research Institute (EPRI) Board of Directors (1998–2003, 2005–2006)

Chair, Electricity Innovations Institute, Board of Directors, (2002–2004); Director (2001–2002)

Director, The Randers Group (subsidiary of Thermo TERRATEK) Board of Directors (1997–2000)

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Director, Thermo ECOTEK Corporation Board of Directors (1996–1999)

OTHER PROFESSIONAL ACTIVITIES

Member, Committee on Accelerating Decarbonization in the United States: Technology, Policy and Social Dimensions, National Academies of Sciences, Engineering & Medicine (2020-2023)

Member, Climate Crossroads Advisory Committee, National Academies of Sciences, Engineering & Medicine (2022-present)

Member, Committee on Net Metering, National Academies of Sciences, Engineering & Medicine (2021-2023)

Member, Committee on the Modernization of the Electric Grid, National Academies of Sciences, Engineering & Medicine, Climate Communications Initiative (2019-2021)

Member, Advisory Committee of the National Academy of Sciences, Engineering & Medicine, Climate Communications Initiative (2018-2023)

Co-chair, National American Energy Standards Board (NAESB) Gas-Electric Harmonization Committee (2012, 2014, 2022-present)

Chair, External Advisory Council, National Renewables Energy Laboratory (2009-present)

Member, Columbia University, Center for Global Energy Policy (2014–2018, 2020-2023)

Member, Institute for Policy Integrity, New York University School of Law (2017-Present)

Member, New York Independent System Operator, Environmental/Advisory Council (2004–Present)

Member, Technical Review Panels at National Renewable Energy Laboratory: Member, Energy Systems Integration TRP (2021-2023); Chair, Computational Sciences and Energy Analysis TRP (2018-2021); Chair, Energy Analysis TRP (2009-2018).

Visiting Fellow in Policy Practice at the Energy Policy Institute at the University of Chicago (2017–2018)

Chair and Member, Electricity Advisory Committee (Department of Energy) (2015–2017)

Member, National Academy of Sciences Committee on Enhancing the Resiliency of the Nation's Electric Power Transmission and Distribution System (2015–2017)

Chair, Aspen Institute Energy Policy Forum (2015)

Member, Innovation Review Panel, "51st State" Initiative of the Solar Electric Power Association (2015)

Chair, External Review Panel for the Clean Energy Ministerial (2015)

Chair, Aspen Institute Energy Policy Forum (2014)

Participant in studies of the Colorado State University's Center for Clean Energy Economy ("Powering Forward: Presidential and Executive Agency Actions to Drive Clean Energy in America") (January 2014)

Co-Lead Convening Author, Energy Supply and Use Chapter, National Climate Assessment (2012–2014)

Member, Committee on Risk Management and Government Issues in Shale Gas Development, of the National Academy of Sciences, Board on Environmental Change and Society (of the Division of Behavioral and Social Sciences and Education) (2013–2014)

Co-chair, Bipartisan Policy Center's Cyber-security and the Electric Grid project (2013–2014)

Alliance Commission on National Energy Efficiency Policy (2012–2013): Report "Energy 2030: Doubling Energy Productivity by 2030" (February 2013)

Bipartisan Policy Center - Energy Project (2011-Present): Report ("America's Energy Resurgence: Sustaining

Success, Confronting Challenges" (February 2013)

U.S. Secretary of Energy Advisory Board (July 2010–May 2013). Member of the Natural Gas Subcommittee examining shale gas development. (2011–2013)

Chair, Policy Subgroup of the National Petroleum Council's study on North American Gas and Oil Resource Development (2010–2011)

Visiting Professor, Department of Urban Studies & Planning, Massachusetts Institute of Technology (Spring 2010)

Massachusetts Clean Energy Grand Prize Judge (2010)

World Resources Institute: Chair of Presidential Search Committee (2011)

Co-Lead, Department of Energy Agency Review Team, Obama/Biden Presidential Transition Team, Washington D.C., while on full-time leave for four months from Analysis Group (2008–2009)

Chair, Massachusetts Ocean Advisory Commission (2008–2010)

Member, Blue Ribbon Commission on Cost-Allocation Issues for Transmission Investment, WIRES (2007)

Member, National Academy of Sciences Committee on Enhancing the Robustness and Resilience of Electrical Transmission and Distribution in the United States to Terrorist Attack (2005–2008)

Member, National Commission on Energy Policy, Member (2002–2011); Co-chair (2009–2011)

Member, Advisory Committee, Carnegie Mellon Electricity Industry Center (2001–2009)

Member, Policy Advisory Committee, China Sustainable Energy Project–A Joint Project of The Packard Foundation and The Energy Foundation (1999–2014)

Co-Chair, Energy/Environment Working Group, Governor Deval Patrick Transition Team (2006–2007)

Presenter, Economic Issues, National LNG Forums, U.S. Department of Energy, Boston Massachusetts; Astoria, Oregon (2006)

Chair of the Technical Review Panel, Critical Infrastructure Protection Decision Support Systems (CIP- DSS), Argonne, Los Alamos and Sandia National Laboratories (2006)

Advisory Council member, New England Energy Alliance (2005–2006)

Chair of the Laboratory Direction's Division Review Panel for the Environmental Energy Technologies Division, Lawrence Berkeley National Laboratory (2005)

Chair, Ocean Management Task Force, Commonwealth of Massachusetts (2003–2004)

Co-Chair, RTO Futures: Regional Power Working Group (2001–2002)

Member, Florida Energy 2020 Study Commission, Environmental Technical Advisory Committee (2001)

Technical Advisor, Mid-Atlantic Area Council/PJM, Dispute Resolution Procedure (1998–2008)

Member, "ISO-New England" (Independent System Operator) Advisory Committee (1998–2003)

Member, United States Department of Energy, Electricity Reliability Task Force (1996–1998)

Member, Harvard Electricity Policy Group (1993–2005)

HONORS AND AWARDS

Lifetime National Associate of the National Research Council of the National Academies of Sciences, Engineering and Medicine (January 2020)

Mary Kilmarx Award for lifetime work on good government, clean energy and the environment, presented by NARUC's Committee on Energy Resources and the Environment (November 2015)

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Lifetime Achievement Award, U.S. Department of Energy/MIT/Clean Energy Ministerial C3E (CleanEnergy Education & Empowerment) Initiative (2014)

Champions Award, Charles River Watershed Association (2013)

Leadership Award, New England Women in Energy and the Environment (2013)

Clean Energy Hall of Fame, New England Clean Energy Council (2012)

DOE Women in Clean Energy Initiative, C3 Ambassador (2012)

Climate Champion Award, Clean Air - Cool Planet (2009)

Distinguished Alumna Award, Scripps College, Claremont, CA (1998)

Award for Individual Leadership in Public Service, The Energy Daily (1995)

Special Recognition Award, Outstanding Contribution to the Industry, Assn of Energy Engineers (1994)

Leadership Award, National Association of State Energy Officials (1994)

Commencement Speaker and Honorary Doctorate of Laws, Regis College, Weston, MA (1992)