



## **CURRICULUM VITAE**

### **Joseph Cavicchi**

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### **PROFESSIONAL EXPERIENCE**

Compass Lexecon, Boston, MA  
*Senior Vice President*, January 1, 2007–present  
*Managing Director*, 2003–2006  
*Vice President*, 2001–2003  
*Senior Consultant*, 1999–2001  
*Consultant*, 1997–1999

Provides wholesale and retail electricity market regulatory economic analyses in connection with the restructuring of the US electricity industry. In particular, advises clients in a variety of Federal Energy Regulatory Commission and state regulatory proceedings, and files testimony and affidavits supported by economic analyses.

Extensive knowledge of wholesale market operations with general economic theory of contracting and electricity generation plant dispatch that provides companies with detailed analyses that impact both regulatory and business decisions. Actively involved in the electricity industry both before and after restructuring for a total of nearly 20 years.

Tufts University, Medford, MA  
*Adjunct Instructor*, Summer 2000

Taught graduate-level environmental economics.

Massachusetts Institute of Technology, Cambridge, MA  
*Research Engineer*, 1997  
*Research Assistant*, 1995-1997

Performed an analysis of water and electricity resources in Mendoza, Argentina. Developed a computer simulation model to support analysis and permit the display of results to a diverse group of stakeholders. Traveled frequently to Mendoza to interact with government officials and relevant institutions in an effort to establish electricity and water policy.

Massachusetts Institute of Technology, Cambridge, MA  
*Project Manager/Staff Mechanical Engineer*, 1989-1995

Managed the development, engineering, and construction of a \$40 million, 20 MW gas turbine-based cogeneration facility at the Cambridge campus. Directed all attributes of the project for its three-year duration. Involved extensively in energy conservation programs with emphasis on building and utility plant optimization through innovative engineering applications.

Carrier Building Systems and Services, Waltham, MA  
*Project Engineer*, 1987-1988

Engineered and managed the installation of Energy Management Systems used exclusively for demand-side management. Interfaced direct digital control systems to mechanical equipment associated with thermal systems of industrial, commercial, and educational buildings.

## **EDUCATION**

Massachusetts Institute of Technology, Cambridge, MA  
S.M. in Technology Policy, 1997

Tufts University, Medford, MA  
S.M. in Environmental Engineering, 1992

University of Connecticut, Storrs, CT  
B.S. Mechanical Engineering, 1987

## **TESTIMONY**

BG Masspower

*Before the Commonwealth of Massachusetts Trial Court, Suffolk, SS. Civil Action 07-3243 (BLS2). Masspower, by its General Partners, BG MP Partners I, LLC, and BG MP Partners II, LLC; Plaintiffs, v. Massachusetts Municipal Wholesale Electric*

Company, Defendant. Deposition of A. Joseph Cavicchi on behalf of Masspower, February 19, 2010.

Aquila CA Remand

*Before the Federal Energy Regulatory Commission, State of California ex rel. Lockyer v. British Columbia Power Exchange Corp., et al., Docket No. EL02-71-017. Filed Errata to Prepared Answering Testimony of A. Joseph Cavicchi, February 22, 2010. Written, Public.*

Allegheny CA Remand

*Before the Federal Energy Regulatory Commission, State of California ex rel. Lockyer v. British Columbia Power Exchange Corp., et al., Docket No. EL02-71-017 et al. Prepared Answering Testimony of A. Joseph Cavicchi on behalf of Allegheny Energy, September 17, 2009. Written, Public.*

MPS Merchant Services

*Before the Federal Energy Regulatory Commission, State of California ex rel. Lockyer v. British Columbia Power Exchange Corp., et al., Docket No. EL02-71-017. Prepared Answering Testimony of A. Joseph Cavicchi on behalf of MPS Merchant Services, September 17, 2009. Written, Public.*

PPL Montana LLC

*Before the Federal Energy Regulatory Commission, State of California ex rel. Lockyer v. British Columbia Power Exchange Corp., et al., Docket No. EL02-71-017. Answering Testimony of A. Joseph Cavicchi on behalf of PPL Montana LLC, September 17, 2009. Written, Public.*

Constellation New Energy

*Before the Federal Energy Regulatory Commission, San Diego Gas and Electric Co. v. Sellers of Energy and Ancillary Services. Docket No. EL00-95 et al. Affidavit of A. Joseph Cavicchi on behalf of Constellation New Energy, August 4, 2009. Oral, Public.*

Energy Northwest

*Before the American Arbitration Association, Seattle, Washington. Grays Harbor Energy LLC, Claimant, Energy Northwest, Respondent. Case No. 75-158-115-08. Testimony of A. Joseph Cavicchi on behalf of Energy Northwest, June 18, 2009. Oral, Public. Deposition Testimony of A. Joseph Cavicchi on behalf of Energy Northwest, May 13, 2009. Oral, Public. Supplemental Expert Report of A. Joseph Cavicchi on behalf of Energy Northwest, April 30, 2009. Written, Confidential. Expert Report of A. Joseph Cavicchi on behalf of Energy Northwest, April 15, 2009. Written, Confidential*

Entegra Power Services LLC

*Before the Federal Energy Regulatory Commission, Docket ER09-838-000. Request for Acceptance of Initial Market-Based Rate Tariff, RE Updated Market*

Power Analysis for EPS' Affiliate, Gila River. Affidavit of A. Joseph Cavicchi, March 13, 2009. Written, Public.

Union Pacific Railroad Company

In the Matter of the Arbitration between Wisconsin Public Service Corporation and Union Pacific Railroad Company. Rebuttal Expert Report of A. Joseph Cavicchi, February 16, 2009.

PPL Electric Utilities Corporation

*Before the Pennsylvania Public Utility Commission*, RE: Petition of PPL Electric Utilities Corporation for Approval of a Default Service Program and Procurement Plan for the Period January 1, 2001 through May 31, 2014. Docket No. P-2008-2060309. Testimony of A. Joseph Cavicchi, on behalf of PPL Electric Utilities Corporation, February 11, 2009. Oral, Public.

PPL Electric Utilities Corporation

*Before the Pennsylvania Public Utility Commission*, Docket No. P-2008-2060309. Rebuttal Testimony of A. Joseph Cavicchi, on behalf of PPL Electric Utilities Corporation, January 20, 2009.

Union Power Partners, L.P.

*United States of America, Before the Federal Regulatory Commission*, Docket No. ER05-1191-014. Updated Market Power Analysis for Continued Market-Based Rate Authority. Affidavit of A. Joseph Cavicchi on behalf Union Power Partners, L.P., December 30, 2008.

PPL Electric Utilities Corporation

*Before the Pennsylvania Public Utility Commission*, Docket No. P-2008-2060309. PPL Supplemental Testimony of A. Joseph Cavicchi of behalf of PPL Electric Utilities Corporation, November 3, 2008.

PPL Electric Utilities Corporation

*Before the Pennsylvania Public Utility Commission*, Docket No. P-2008-2060309. Testimony of A. Joseph Cavicchi of behalf of PPL Electric Utilities Corporation, September 11, 2008.

PPL Electric Utilities Corporation

*United States of America, Before the Federal Regulatory Commission*, Docket No. ER00-1712-008, ER02-2408-003, ER00-744-006, ER02-1327-005, ER00-1703-003, ER02-1749-003, ER02-1747-003, ER99-4503-005, ER00-2186-003, ER01-1559-004. Affidavit of A. Joseph Cavicchi on behalf of PPL Companies, September 2, 2008.

PPL Electric Utilities Corporation

*United States of America, Before the Federal Regulatory Commission, Docket No. EL08-67-000. Affidavit of A. Joseph Cavicchi (with Joseph P. Kalt) on behalf of PPL Companies, August 12, 2008.*

PPL Electric Utilities Corporation

*United States of America, Before the Federal Regulatory Commission, Docket No. EL08-67-000. Affidavit of A. Joseph Cavicchi (with Joseph P. Kalt) on behalf of PPL Companies, July 11, 2008.*

Entegra Power Group L.L.C.

*United States of America, Before the Federal Regulatory Commission, Docket No. ER05-1178-00 and ER05-1191-00. Affidavit of A. Joseph Cavicchi on behalf of Entegra Power Group L.L.C, Gila River Power, L.P., Union Power Partners, L.P., Harbinger Capital Partners Master Fund I, Ltd., and Harbinger Capital Partners Special Situations Fund, LP, May 30, 2008.*

Harbinger

*United States of America, Before the Federal Regulatory Commission, Docket No. EC08-87-000. Affidavit of A. Joseph Cavicchi on behalf of the Entegra Power Group L.L.C, Gila River Power, L.P., Union Power Partners, L.P., Harbinger Capital Partners Master Fund I, Ltd., and Harbinger Capital Partners Special Situations Fund, LP, May 9, 2008.*

IEPA

*United States of America, Before the Federal Regulatory Commission, Docket Nos. ER08-556-000 and ER06-615-020. Affidavit of A. Joseph Cavicchi on behalf of Independent Energy Producers Association, February 29, 2008.*

P3 Group

*United States of America, Before the Federal Regulatory Commission, Docket No. EL08-34-000. Affidavit of Joseph P. Kalt and A. Joseph Cavicchi on behalf of the P3 Group, responding to the Complaint of the Maryland Public Service Commission against PJM Interconnection, L.L.C. regarding marketing power mitigation, February 19, 2008.*

Tractebel Energy Marketing, Inc.

*Tractebel Energy Marketing, Inc. v. AEP Power Marketing, Inc., American Electric Power Company, Inc. and Ohio Power Company, 03 CV 6731 (S.D.N.Y.) (HB) (JCF); and Ohio Power Company and AEP Power Marketing, Inc. v. Tractebel Energy Marketing, Inc. and Tractebel S.A., 03 CV 6770 (S.D.N.Y.) (HB) (JCF), Expert Report of A. Joseph Cavicchi, on Behalf of Tractebel Energy Marketing, Inc., January 21, 2008.*

Triennial Market Power Update

*United States of America, Before the Federal Regulatory Commission, Docket Nos. ER00-1712-007, ER02-2408-003, ER00-744-006, ER02-1327-005, ER00-1703-002, ER02-1749-003, ER02-1747-003, ER99-4503-005, ER00-2186-003, ER01-1559-004. Affidavit of A. Joseph Cavicchi on behalf of Triennial Market Power Update of PPL Companies, January 14, 2008.*

IEPA

*United States of America, Before the Federal Regulatory Commission, Docket Nos. ER06-615-003, 005, 012, ER07-1257-000, ER02-1656-017, ER02-1656-018, EL05-146-000 and EL08-20-000. Affidavit of A. Joseph Cavicchi on behalf of Independent Energy Producers Association, January 9, 2008.*

NRG

*United States of America, Before the Federal Regulatory Commission. New York Independent System Operator – Docket No. EL07-39-000. Affidavits of A. Joseph Cavicchi on behalf of NRG Power Marketing, Inc., Arthur Kill Power LLC, Astoria Gas Turbine Power LLC, Dunkirk Power LLC, Huntley Power LLC, and Oswego Harbor Power LLC, November 19, 2007, December 10, 2007 and December 21, 2007. Written, Public.*

American Electric Power Services Corporation, Conectiv Energy Supplies, Inc., DTE Energy Trading, Inc., Energy America, LLC, Integrys Energy Services, Inc., and PPL Energy Plus, LLC

*United States of America, Before the Federal Regulatory Commission, The People of the State of Illinois, ex rel. Illinois Attorney General Lisa Madigan v. Exelon Generation Co., LLC, et al, Docket No. EL07-47-000, Affidavit of Joseph Cavicchi and Joseph P. Kalt, June 18, 2007, Written, Public.*

Independent Energy Producers Association of California

*United States of America, Before the Federal Regulatory Commission, Docket No. R.06-02-013, Long-Term Procurement Plans, Prepared Testimony of the Independent Energy Producers Association; Prepared Testimony of Joseph Cavicchi and David Reishus on behalf of the IEPA, March 2, 2007, Written, Public.*

Cross Hudson

*Before the State Of New York Public Service Commission  
Request of Hudson Transmission Partners, LLC, for Unredacted Copies of Records Filed In Case 01-T-1474. Affidavit of Joseph Cavicchi in Support of Cross Hudson Corporation's Appeal of Records Access Officer's February 9, 2007, Determination (Trade Secret 07-1), February 21, 2007, Written, Public.*

PPL Electric Utilities Corporation

*Before The Pennsylvania Public Utility Commission, Re: Petition of PPL Electric Utilities Corporation for Approval of A Competitive Bridge Plan, Docket No. P-00062227, Direct Testimony of Joseph Cavicchi, December 19 and 20, 2006, Oral, Public.*

PPL Electric Utilities Corporation

*Before The Pennsylvania Public Utility Commission, Re: Petition of PPL Electric Utilities Corporation for Approval of A Competitive Bridge Plan, Docket No. P-00062227, Reply to Surrebuttal Testimony of Marjorie R. Philips, Joseph Cavicchi, December 20, 2006. Written, Public.*

PJM Interconnect, LLC

*United States of America, Before the Federal Regulatory Commission, Docket No. EL05-148-000, 001; Docket No. ER05-1410-000, 001, Initial Comments of the PPL Parties and the PSEG Companies in Opposition to Proposed Settlement, Exhibit D-1 (Exhibit AJC-1), Affidavit of A. Joseph Cavicchi, Affidavit, October 19, 2006, Written, Public.*

Excelsior Energy Inc.

*Before The Minnesota Office Of Administrative Hearings, Re: In The Matter Of The Petition Of Excelsior Energy Inc. And Its Wholly-Owned Subsidiary MEP-I, LLC For Approval Of Terms And Conditions For The Sale Of Power From Its Innovative Energy Project Using Clean Energy Technology Under Minn. Stat. §216B.1694 and a Determination That The Clean Energy Technology Is Or Is Likely To Be A Least-Cost Alternative Under Minn. Stat. §216B.1693, MPUC Docket No. E-6472-/M-05-1993; OAH Docket No. 12-2500-17260-2, Prepared Rebuttal Testimony and Exhibits of Excelsior Energy Inc. and MEP-I LLC, Rebuttal and Exhibits of Joseph Cavicchi, October 10, 2006. Written, Confidential.*

PPL Electric Utilities Corporation

*Before The Pennsylvania Public Utility Commission, Re: Petition of PPL Electric Utilities Corporation for Approval of A Competitive Bridge Plan, Docket No. P-00062227, Statement No. 2, Direct Testimony of Joseph Cavicchi, September 15, 2006. Written, Public.*

Independent Energy Producers Association of California

*United States of America, Before the Federal Regulatory Commission, Docket No. EL05-146-000, Reply Comments of the Independent Energy Producers Association, September 26, 2006; Affidavit of Joseph Cavicchi, August 26, 2006, Written, Public.*

Independent Energy Producers Association of California

*United States of America, Before the Federal Regulatory Commission, Docket No. EL05-146-000, Affidavit in Support of Justness and Reasonableness of the Offer of*

Settlement's Reference Resource's Cost and Performance Characteristics, Affidavit of Joseph Cavicchi, August 21, 2006, Written, Public.

PPL Maine, LLC

*United States of America, Before the Federal Regulatory Commission, RE: PPL Maine, LLC , Docket No. ER00-2186-002, Triennial Market-Based Rate Update. Affidavit of A. Joseph Cavicchi on behalf of the PPL Companies, June 19, 2006. Written, Public.*

FirstEnergy Solutions Corp.

*United States of America, Before the Federal Regulatory Commission, FirstEnergy Solutions Corp., Docket No. ER06-117-000, Prepared Direct Testimony of Scott T. Jones, Ph.D., and A. Joseph Cavicchi on behalf of FirstEnergy Solutions Corporation, March 15, 2006, confirming the auction price result of the Competitive Bidding Process carried out by the Ohio Public Utilities Commission in December 2004, and establishing that Solutions is not charging a rate greater than market prices for wholesale electricity sold to its affiliated Ohio based regulated distribution companies.*

PPL Montana, LLC

*United States of America, Before the Federal Energy Regulatory Commission, RE: PPL Montana, LLC, Docket No. ER99-3491-003; PPL Colstrip I, LLC, Docket No. ER00-2184-001; PPL Colstrip II, LLC, Docket No. ER00-2185-001; Answer of the PPL Montana Parties to Montana Consumer Counsel's New Uncommitted Capacity Pivotal Supplier Analysis and Uncommitted Capacity Market Share Analysis, Affidavit (filed with Joseph Kalt), February 28, 2005; Affidavit (filed with Joseph Kalt), November 14, 2005 (original October 31, 2005); First Supplemental Affidavit on Behalf of the PPL Montana Parties, (filed with Joseph Kalt), December 23, 2005; Affidavit (filed with Joseph Kalt), February 1, 2006.*

PPL Corporation

*United States of America, Before the Federal Energy Regulatory Commission, Triennial Market-Based Rate Update, Submitted by PPL Great Works, Docket No. ER05-4503-004, Affidavit, January 24, 2006.*

Independent Energy Producers Association of California

*Before the Public Utilities Commission of the State of California, Evidentiary Hearings, Dockets Nos. R04-04-025 and R04-04-003. Testimony of Joseph Cavicchi and David Reishus on behalf of Independent Energy Producers Association of California, January 23 and 24, 2006. Oral, Public.*

PPL Corporation

*United States of America, Before the Federal Energy Regulatory Commission, Docket No. ER05-1416-000, Affidavit of A. Joseph Cavicchi, Joseph P. Kalt, Ph.D., and David A. Reishus, Ph.D. on Behalf of the PPL Parties, Affidavit, October 19, 2005.*

Independent Energy Producers Association of California

*United States of America, Before the Federal Energy Regulatory Commission, Docket No. EL05-146-000, Affidavit in Support of the Complaint of the Independent Energy Producers Association to Implement CAISO Market Design Modifications, Affidavit, August 26, 2005.*

PPL Corporation

*United States of America, Before the Federal Energy Regulatory Commission , “A Policy Analysis of PJM’s Proposed Four-Year Forward Capacity Market.” With Joseph P. Kalt, submitted in PPL Resource Adequacy Market Proposal, Docket No. PL05-7-000, June 16, 2005.*

PPL EnergyPlus

*United States of America, Before the Federal Energy Regulatory Commission , Docket ER00-1712-004, Request for Leave to Respond and Response of PPL Parties to Protest of PJM Industrial Customer Coalition and the PP&L Industrial Customer Alliance and to Comments of Joint Consumer Advocates, Supplemental Affidavit, December 16, 2004.*

PPL Montana, LLC

*United States of America, Before the Federal Energy Regulatory Commission, RE: PPL Montana, LLC; PPL Colstrip I, LLC; PPL Colstrip II, LLC; Docket No. ER99-3491-\_\_, Compliance Filing: Triennial Market-Based Rate Update and Revised Tariff Sheet, Affidavit (filed with Joseph Kalt), November 9, 2004.*

*United States of America, Before the Federal Energy Regulatory Commission, PPL Colstrip I, LLC; PPL Colstrip II, LLC; Docket No. ER99-3491-003, market power analysis in support of application for renewal of authority to sell electric energy and capacity at market-based rates, Affidavit (filed with Joseph Kalt), November 9, 2004.*

PPL EnergyPlus

*United States of America, Before the Federal Energy Regulatory Commission, PPL EnergyPlus et al., Docket ER00-1712-004, market power analysis in support of application for renewal of authority to sell electric energy and capacity at market-based rates, Supplemental Affidavit, November 9, 2004.*

PPL Southwest Generation Holdings, LLC

*United States of America, Before the Federal Energy Regulatory Commission, PPL Southwest Generation Holdings, LLC, Docket No. ER01-1870-002, market power*

analysis in support of application for renewal of authority to sell electric energy and capacity at market-based rates. Supplemental Affidavit, October 25, 2004.

PPL Wallingford Energy LLC

*United States of America, Before the Federal Energy Regulatory Commission, PPL Wallingford Energy LLC, Docket No. ER01-1559-002, market power analysis in support of application for renewal of authority to sell electric energy and capacity at market-based rates, Supplemental Affidavit, October 8, 2004.*

PPL Wallingford Energy LLC

*United States of America, Before the Federal Energy Regulatory Commission, PPL Wallingford Energy LLC, Docket No. ER01-1559-002, market power analysis in support of application for renewal of authority to sell electric energy and capacity at market-based rates. Affidavit, July 12, 2004.*

PPL Southwest Generation Holdings, LLC

*United States of America, Before the Federal Energy Regulatory Commission, PPL Southwest Generation Holdings, LLC, Docket No. ER01-1870-002, market power analysis in support of application for renewal of authority to sell electric energy and capacity at market-based rates. Affidavit, July 12, 2004.*

PPL Wallingford Energy LLC

*United States of America, Before the Federal Energy Regulatory Commission, PPL Wallingford Energy LLC and PPL EnergyPlus, LLC, Petition for Rehearing, Request for Clarification and Request for Expedited Action on Rehearing and Clarification of PPL Wallingford Energy LLC and PPL EnergyPlus, LLC. Affidavit, June 16, 2003.*

Massachusetts Department of Telecommunications and Energy

Submission of comments on the investigation by the Massachusetts DTE on its own motion into the Provision of Default Service, DTE 02-40-B (with Charles Augustine). May 28, 2003.

## **BUSINESS STRATEGY ANALYSES**

### Electricity Generation Facility Developers

Oversees the development and implementation of transmission-constrained dispatch modeling for proposed electricity generation units locating in the Northeastern, Mid-Atlantic, and Midwestern United States. Analyses typically focus on determining likely facility capacity factors and impacts on local and regional air pollutant emissions as well as on wholesale electricity prices. In addition, these analyses provide detailed knowledge of new facilities' impacts on the operation of the electricity transmission system that is critical to assessing the ability of a generating unit to deliver its power in a wide geographical area.

### Electricity Distribution Companies

Provide extensive strategic advice and analytical support to electricity distribution companies that are required to assess new wholesale marketplaces in order to fulfill their regulatory commitments as providers of last resort or default electricity service. In most instances these companies require assistance with the development and issuance of requests for proposals as well as rapid evaluation of commodity bids. The assignments combine extensive knowledge of wholesale market operations with general economic theory of contracting and electricity generation plant dispatch in order to provide companies with an approach to commodity procurement that agrees with their risk profile. In most cases there are numerous business and regulatory concerns that are incorporated into the procurement strategies. Additionally, each assignment typically requires extensive analysis of customer demand patterns and wholesale market prices in order to develop market-based customer service cost forecasts.

### **PUBLICATIONS**

“U.S. Centralized Wholesale Electricity Markets: An Update”, published in the International Association for Energy Economics Newsletter, First Quarter 2007, pp. 8-12.

“Power Procurement. What’s in Your Mix? Why Competitive Markets are Scaring Regulators”, with Andrew Lemon, published in Public Utilities Fortnightly, November 2006, pp. 49-54.

“Competition and Regulation in the Power Industry, Part III: Tensions Evolve Between Regulation and Competition”, with Charles Augustine and Joseph Kalt, published in Electric Light & Power, January/February 2006: volume 84.01, pp 24-25.

“Gradualism in Retail Restructuring.” with Charles Augustine and Joseph P. Kalt, published in Electric Light & Power, September/October 2005: volume 83:05, pp 26-30.

“Competition and Regulation in the Power Industry: Can the Two Coexist?”, with Charles Augustine and Joseph Kalt, published in Electric Light & Power, July/August 2005: volume 83.04, pp 28-31.

“Ensuring The Future Construction of Electricity Generation Plants: The Challenge of Maintaining Reliability in New U.S. Wholesale Electricity Markets.” with Andrew Kolesnikov, published in International Association for Energy Economics Newsletter, First Quarter 2005.

"Electricity Company Affiliate Asset Transfer Self Build Policies: Renewed Regulatory Challenges," with Scott T. Jones, *The Electricity Journal*, November, 2004.

Onward Restructuring, *Hart Energy Markets*, September 2004, Vol. 9, No. 9 at Page 64.

"Competition and Regulation in the North American Electricity Industry: Can These Two Seemingly Opposed Forces Coexist?" with Charlie Augustine and Joseph P. Kalt, Published in the 24<sup>th</sup> Annual North American Conference of the USAEE/IAEE Proceedings, July 9, 2004, Washington, DC.

Wholesale Electricity Procurement Strategies for Serving Retail Demand, *International Association for Energy Economics Newsletter*, First Quarter, 2004.

"Economic and Environmental Benefits of the Kings Park Energy Project: System Production Modeling Report" (with Susan F. Tierney), January 25, 2002.

"Economic and Environmental Benefits of the Wawayanda Energy Center: System Production Modeling Report" (with Susan F. Tierney), August 24, 2001.

"Air Pollution Reductions Resulting from the Kings Park Energy Project" (with Susan F. Tierney), January 24, 2001.

## **PRESENTATIONS**

"PJM's RPM Auctions: Emerging and Unsettled Issues." *NECA Power Markets Conference*, November 1, 2007.

"Locational Capacity Markets: Understanding the Upside." *New York City*, July 8, 2006.

"Competition and Regulation in the North American Electricity Industry: Can These Two Seemingly Opposed Forces Coexist?" 24<sup>th</sup> Annual North American Conference of the USAEE/IAEE, July 9, 2004, Washington, DC.

"Merchant Transmission Investment Regimes: An Outsider's Observations," *The East Coast Energy Group*, April 16, 2004.

"Wholesale Procurement Strategies for the Restructured Electricity Markets: Experiences from the Field," *Platts First Annual Electricity Market Design Imperative*, Chicago, IL, November 6, 2003.

"Power Plant Technologies and Characteristics," *The Harvard Institute for International Development's Third Annual Program on Climate Change and Development*, Cambridge, MA, June 19, 2000.

“Transmission Planning & Investment in the RTO Era” (with John Farr and Susan F. Tierney), workshop at Infocast Conference on Transmission Pricing, Chicago, IL, May 1, 2000.

“The US Market for Merchant Plants—Outlooks, Opportunities and Impediments,” CBI’s 4<sup>th</sup> Annual Profit from Merchant Plants Conference, January 31, 2000.

“Projecting Electricity Prices for a Restructured Electricity Industry,” EXNET Merchant Power Plant Conference, Washington, DC, June 3, 1999.

“Transmission Planning and Competitive Generation Markets: The New England Case,” EUCI conference on Transmission Restructuring for Retail Competition, Denver, CO, March 25, 1999.

“Key Issues in Ancillary Service Markets,” IBC conference on Pricing and Selling Ancillary Services in a Competitive Market Conference, San Francisco, CA, March 11, 1999.

“Successfully Forecasting the Price of Energy and Other Products,” workshop presented at IBC’s conference on Successful Load Profiling, San Francisco, CA, December 2, 1998.

“International Perspective: Lessons from the US Deregulation Experience,” Nordic Power ’98, Stockholm, Sweden, October 7, 1998.

“Successfully Forecasting the Price of Energy and Other Products in a Restructured Electric Power Industry,” workshop presented at IBC’s 3<sup>rd</sup> Strategic Forum on Market Price Forecasting, Baltimore, MD, August 24, 1998.

“Managing Market Share Loss with the Opening of Retail Markets to Competition,” Electric Utility Business Environment Conference, Denver, CO, June 24, 1998.

“Multi-Attribute Trade-Off Analysis for Water and Electricity Policy Development,” presented in Mendoza, Argentina, July 1996 and April 1997.

“The Basics of Cogeneration,” presented at the Tufts University Forum on Energy Conservation, December 1993.

“Implications and History of the MIT Cogeneration Project,” presented to the Massachusetts Society of Professional Engineers, November 1993.

**CERTIFICATIONS**

Registered Professional Engineer, Commonwealth of Massachusetts

**PROFESSIONAL AFFILIATIONS**

Member, Board of Directors, Northeast Energy and Commerce Association, 2002-present