

JOSEPH CAVICCHI
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Mr. Cavicchi is an expert on the economics of wholesale and retail electricity markets. With more than 20 years of consulting experience, he advises a wide range of clients on issues associated with wholesale power market design and market power mitigation frameworks, wholesale and retail contracting practices, and regulatory and contract disputes arising in these marketplaces. In these engagements, Mr. Cavicchi has conducted economic analyses evaluating the impact of regulatory policies on electricity markets, applied rigorous analytical modeling tools to power system operations, evaluated contracting disputes and assessed financial damages, analyzed the effectiveness of market power mitigation frameworks in conjunction with antitrust analyses, and led economic investigations of market participant bidding behavior associated with allegations of market manipulation. He has extensive experience as an expert witness before the Federal Energy Regulatory Commission (FERC) and other federal and state regulatory authorities and has provided testimony in court and arbitration proceedings. Mr. Cavicchi presents and publishes frequently on issues relevant to electricity market design and evolution. He is a registered professional mechanical engineer in the Commonwealth of Massachusetts.

EDUCATION

1997 S.M., technology policy, Massachusetts Institute of Technology
1992 S.M., environmental engineering, Tufts University
1987 B.S., mechanical engineering, University of Connecticut

PROFESSIONAL EXPERIENCE

2019–Present Analysis Group
 Vice President

1997–2019 Compass Lexecon
 Executive Vice President/Senior Vice President (2007–2019)
 Vice President (2001–2006)
 Consultant/Senior Consultant (1997–2001)

1989–1997 Massachusetts Institute of Technology
 Research Assistant/Engineer (1995–1997)
 Project Manager/Staff Mechanical Engineer (1989–1995)

1987–1988 Carrier Building Systems and Services
 Project Engineer

SELECTED CONSULTING EXPERIENCE

Electric Generation Companies, Trade Associations, and Independent System Operators

Conducts power system economic analyses to investigate the interaction of regulatory policies and rules with wholesale power markets, the results of which form the basis for a wide variety of reports, presentations, and papers. Conducts wholesale market power screening analyses and evaluates the impacts of mergers and acquisitions on wholesale and retail markets. Analyzes power market designs and runs workshops and seminars on power market design features.

Electricity Generation and Transmission Facility Developers

Oversees the development and implementation of security-constrained unit commitment and dispatch modeling for proposed electricity generation units and transmission facilities located in the Northeastern, Mid-Atlantic, and Midwestern US. The analyses typically focus on going-forward generation and transmission resource economic evaluations, and on assessing the impacts of different resource mixtures on local and regional air pollutant emissions and projected wholesale and retail electricity prices. In addition, these analyses often include an estimate of the impact of particular resource investments on social welfare.

SELECTED EXPERT TESTIMONY

- **Olin Chlorine 7 f/k/a Dow Mitsui Chlor-Alkali LLC**
Before the American Arbitration Association International Centre for Dispute Resolution, Olin Chlorine 7 f/k/a Dow Mitsui Chlor-Alkali LLC, and Blue Cube Operations, LLC, Claimants, and Dow Hydrocarbons and Resources LLC, Respondent, Case No. 01-21-0004-3837
Expert Report of Allen Joseph Cavicchi, February 1, 2022. Confidential.
- **PJM Interconnection, L.L.C.**
United States of America, Before the Federal Energy Regulatory Commission, Docket No. ER22-26-000
Direct Testimony of A. Joseph Cavicchi and Megan H. Accordino, Ph.D., October 1, 2021
- **Twin Eagle Resource Management**
City of Raton vs. Twin Eagle, State of New Mexico, County of Colfax, Eighth Judicial District, Resource Management, No: D-809-CV-2019-00020
Deposition Testimony, December 3, 2020.
- **PPL Electric Utilities Corporation**
Before the Pennsylvania Public Utility Commission, Docket No. P-2020-3019356, PPL Electric Utilities Corporation
Statement No. 2. Direct Testimony of A. Joseph Cavicchi, March 25, 2020. Written, Public.
Statement No. 2-R. Rebuttal Testimony of A. Joseph Cavicchi, July 23, 2020. Written, Public.
- **PJM Power Providers Group**
United States of America, Before the Federal Energy Regulatory Commission, Docket Nos. ER19-1486-000 and EL19-58-000
Affidavits of A. Joseph Cavicchi on behalf of the PJM Power Providers (“P3”) Group, May 15, 2019 and June 20, 2019. Written, Public.
- **NextEra Energy Resources, LLC**
United States of America, Before the Federal Energy Regulatory Commission, Docket No. ER18-1639-000

Answering Testimony of A. Joseph Cavicchi on behalf of NextEraEnergy Resources, LLC, August 23, 2018. Written, Public and Confidential. Deposition Testimony of A. Joseph Cavicchi, September 10, 2018. Oral, Public. Testimony of A. Joseph Cavicchi, October 8, 2018, Oral, Public and Confidential.

- **CXA La Paloma, LLC**
United States of America, Before the Federal Energy Regulatory Commission. RE : CXA La Paloma, LLC v. California Independent System Operator Corporation, Docket No. EL18-177
Affidavit of Jeffrey Tranen and Joseph Cavicchi, June 20, 2018. Written, Public.
- **Talen Montana, LLC and Talen Energy Marketing, LLC**
United States of America, Before the Federal Energy Regulatory Commission. RE : Triennial Market-Based Rate Update for the Northwest Region, Talen Montana, L.L.C. et al., Dockets ER 15-2013 et al.
Affidavit of A. Joseph Cavicchi, April 27, 2018. Written, Public.
- **Talen Montana, LLC and Talen Energy Marketing, LLC**
United States of America, Before the Federal Energy Regulatory Commission. RE : Triennial Market-Based Rate Update for the Northwest Region, Talen Montana, L.L.C. et al., Dockets ER 10-2016 et al.
Affidavit of A. Joseph Cavicchi, December 20, 2016. Written, Public.
- **PPL Electric Utilities Corporation and LG&E Energy Marketing Inc.**
United States of America, Before the Federal Energy Regulatory Commission. RE : Triennial Market-Based Rate Update for the Northeast Region, PPL Electric Utilities Corporation et al., Dockets ER 10-2010 et al.
Affidavit of A. Joseph Cavicchi, December 20, 2016. Written, Public.
- **NextEra Energy Resources, LLC**
Before the Commonwealth of Massachusetts, Department of Public Utilities, Docket D.P.U. 16-05, Petition for Approval of Gas Infrastructure Contracts with Algonquin Gas Transmission Co. for the Access Northeast Project
Direct Testimony of Joseph P. Kalt and A. Joseph Cavicchi, June 20, 2016 (corrected June 28, 2016), Written, Public and Confidential. Surrebuttal Testimony of Joseph P. Kalt and A. Joseph Cavicchi, July 18, 2016. Written, Public and Confidential.
- **NextEra Energy Resources, LLC**
Before the Commonwealth of Massachusetts, Department of Public Utilities, Docket D.P.U. 15-181, Petition for Approval of Gas Infrastructure Contracts with Algonquin Gas Transmission Co. for the Access Northeast Project
Direct Testimony of Joseph P. Kalt and A. Joseph Cavicchi, June 13, 2016 (corrected June 28, 2016), Written, Public and Confidential. Surrebuttal Testimony of Joseph P. Kalt and A. Joseph Cavicchi, July 12, 2016. Written, Public and Confidential.
- **PPL Electric Utilities Corporation**
Before the Pennsylvania Public Utility Commission, Docket No. P-2016-2526627, PPL Electric Utilities Corporation
Statement No. 2. Direct Testimony of A. Joseph Cavicchi, January 29, 2016. Written, Public.
Statement No. 2-Supp. Supplemental Testimony of A. Joseph Cavicchi, March 9, 2016, Written, Public. Statement No. 2-R Rebuttal Testimony of A. Joseph Cavicchi, May 23, 2016. Written, Public.

- **Calpine Corporation et al.**
United States of America, Before the Federal Energy Regulatory Commission. Calpine Corporation et al., Complainants v. PJM Interconnection, L.L.C., Respondent. RE: Complaint Requesting Fast Track Processing, PJM Interconnection, L.L.C., Docket No. EL 16-49-000
Affidavit of A. Joseph Cavicchi, March 21, 2016. Written, Public.
- **PJM Power Providers Group**
Before the Public Utilities Commission of Ohio, In the Matter of the Application Seeking Approval of Ohio Power Company's Proposal to Enter into an Affiliate Power Purchase Agreement for Inclusion in the Power Purchase Agreement Rider, Case No. 14-1693-EL-RHR et al.
Supplemental Testimony of A. Joseph Cavicchi on behalf of the PJM Power Providers Group and The Electric Power Supply Association, December 28, 2015. Written, Public and Confidential.
Deposition of A. Joseph Cavicchi on behalf of the PJM Power Providers Group and The Electric Power Supply Association, January 5, 2016. Deposition Testimony of A. Joseph Cavicchi, January 5, 2016. Testimony of A. Joseph Cavicchi, January 7, 2016. Oral, Public.
- **Exelon Generation Company, LLC**
United States of America, Before the Federal Energy Regulatory Commission, San Diego Gas & Electric Company v. Sellers of Energy and Ancillary Services, Into Markets Operated by the California, Independent System Operator Corporation, And the California Power Exchange, Docket EL 00-95-280 et al.
Affidavit of A. Joseph Cavicchi in Support of the Exelon Generation Company, LLC's Fuel Cost Allowing Filing, December 4, 2015. Written, Public.
- **PJM Power Providers Group**
Before the Public Utilities Commission of Ohio, In the Matter of the Application Seeking Approval of Ohio Power Company's Proposal to Enter into an Affiliate Power Purchase Agreement for Inclusion in the Power Purchase Agreement Rider, Case No. 14-1693-EL-RHR et al.
Direct Testimony of A. Joseph Cavicchi on behalf of the PJM Power Providers Group and The Electric Power Supply Association, September 11, 2015, Written, Public and Confidential. Testimony of A. Joseph Cavicchi on behalf of the PJM Power Providers Group and The Electric Power Supply Association, October 20, 2015. Oral, Public.
- **Iberdrola Renewables, LLC**
United States of America, Before the Federal Energy Regulatory Commission, Docket Nos. EL02-60-007 and EL02-62-006, consolidated
Prepared Answering Testimony of A. Joseph Cavicchi on behalf of Iberdrola Renewables, LLC, July 21, 2015 Written, Public & Confidential. Deposition of A. Joseph Cavicchi on behalf of the Iberdrola Renewables, LLC, September, 24, 2015. Oral, Confidential. Testimony of A. Joseph Cavicchi, December 3, 2015. Oral, Public.
- **PPL Electric Utilities Corporation**
Before the Pennsylvania Public Utility Commission, Docket No. P-2014-2417907, PPL Electric Utilities Corporation
Statement No. 2. Direct Testimony of A. Joseph Cavicchi, April 25, 2014, Written, Public. Statement No. 2-R Rebuttal Testimony of A. Joseph Cavicchi, July 28, 2014. Written, Public.
- **San Diego Gas and Electric Company**
Naturener USA, LLC, et al. v. San Diego Gas & Electric Company, in the Montana Ninth Judicial District Court, Toole County, Declaration, January 22, 2014. Non-Public.

- **PPL EnergyPlus**
United States of America, Before the Federal Energy Regulatory Commission. RE : Triennial Market-Based Rate Update for the Northeast Region, PPL Electric Utilities Corporation et al., Dockets ER 10-2010 et al.
Affidavit of A. Joseph Cavicchi, December 31, 2013. Written, Public.
- **PPL EnergyPlus**
United States of America, Before the Federal Energy Regulatory Commission. RE : Triennial Market-Based Rate Update for the Northwest Region, PPL EnergyPlus LLC et al., Dockets ER 10-2011 et al.
Affidavit of A. Joseph Cavicchi, December 31, 2013. Written, Public.
- **Transalta Energy Marketing**
United States of America, Before the Federal Energy Regulatory Commission, Puget Sound Energy, Inc., Complainant v. All Jurisdictional Sellers of Energy and/or Capacity at Wholesale into Electric Energy and/or Capacity Markets in the Pacific Northwest, Including Parties to the Western System Power Pool Agreement Participants, Docket. No. EL01-085
Prepared Answering Testimony of A. Joseph Cavicchi on behalf of Transalta Energy Marketing (U.S.) Inc. and Transalta Energy Marketing (California) Inc., December 17, 2012. Deposition of A. Joseph Cavicchi on behalf of Transalta Energy Marketing (California) Inc., February 8, 2013. Testimony of A. Joseph Cavicchi, October 21 and 22, 2013. Oral, Public.
- **Avista Corporation et al.**
United States of America, Before the Federal Energy Regulatory Commission, In the Matter of Puget Sound Energy, Inc. v. All Jurisdictional Sellers of Energy and/or Capacity at Wholesale into Electric Energy and/or Capacity Markets in the Pacific Northwest, including Parties to the Western Systems Power Pool Agreement. Docket EL01-10-085
Testimony of A. Joseph Cavicchi, September 26, 2013. Oral, Public. Answering Testimony of A. Joseph Cavicchi on behalf of Avista Corporation et al. (“Joint Defense Group”), June 24, 2013. Deposition of A. Joseph Cavicchi on behalf of Avista Corporation et al., July 9, 2013.
- **US Department of Justice**
Before the United States Court of Federal Claims, Pacific Gas and Electric Company and Southern California Edison Company, Plaintiffs et al. v. The United States, Defendant, No. 07-157C, No. 07-167C (Consolidated), No. 07-184C
Deposition of A. Joseph Cavicchi, March 27, 2013. Confidential, Subject to Protective Order.
- **US Department of Justice**
Before the United States Court of Federal Claims, Pacific Gas and Electric Company and Southern California Edison Company, Plaintiffs et al. v. The United States, Defendant, No. 07-157C, No. 07-167C (Consolidated), No. 07-184C
Expert Report of A. Joseph Cavicchi, March 1, 2013. Confidential, Subject to Protective Order.
- **PPL Montana and PPL EnergyPlus**
United States of America, Before the Federal Energy Regulatory Commission, Puget Sound Energy, Inc., Complainant v. All Jurisdictional Sellers of Energy and/or Capacity at Wholesale into Electric Energy and/or Capacity Markets in the Pacific Northwest, Including Parties to the Western System Power Pool Agreement Participants, Docket. No. EL01-085
Prepared Answering Testimony of A. Joseph Cavicchi on behalf of PPL Montana and PPL EnergyPlus, December 17, 2012. Written, Public. Deposition of A. Joseph Cavicchi on behalf of PPL Montana and PPL EnergyPlus, February 8, 2013.

- **Constellation New Energy**
United States of America, Before the Federal Energy Regulatory Commission, Puget Sound Energy, Inc., Complainant v. All Jurisdictional Sellers of Energy and/or Capacity at Wholesale into Electric Energy and/or Capacity Markets in the Pacific Northwest, Including Parties to the Western System Power Pool Agreement Participants, Docket No. EL01-085
Prepared Answering Testimony of A. Joseph Cavicchi on behalf of Constellation Energy Commodities Group, December 17, 2012. Written, Public. Deposition of A. Joseph Cavicchi on behalf of Constellation Energy Commodities Group, February 8, 2013.
- **Constellation NewEnergy**
United States of America, Before the Federal Energy Regulatory Commission, San Diego Gas & Electric Company, Complainant, v. Sellers of Energy and Ancillary Services into Markets Operated by the CA ISO and CA Power Exchange, et al., Respondents, Docket No. EL00-95-248
Direct Testimony and Exhibits of Constellation NewEnergy, Inc. Testimony of A. Joseph Cavicchi on behalf of Constellation NewEnergy, July 11, 2012. Oral, Public.
- **PPL Electric Utility Corporation**
Before the Pennsylvania Public Utility Commission, Docket No. P-2012-2302074, PPL Electric Utility Corporation
Statement No. 2. Direct Testimony of A. Joseph Cavicchi, May 16, 2012. Statement No. 2-R. Direct Testimony of A. Joseph Cavicchi, August 17, 2012. Statement No. 3. Testimony of A. Joseph Cavicchi, September 10, 2012. Oral, Public.
- **PPL Corporation**
United States of America, Before the Federal Energy Regulatory Commission, RE: Notice of Change in Status Regarding Market-Based Rate Authority, Docket No. ER10-2016-___ et al.
Affidavit of A. Joseph Cavicchi on behalf of PPL Corporation, January 30, 2012. Written, Public.
- **Entegra Power Services, LLC**
United States of America, Before the Federal Energy Regulatory Commission, Union Power Partners LP, Docket No. ER05-1191-016, Entegra Power Services LLC, Docket No. ER09-838-002
Updated Market Power Analysis for Market-Based Rates. Affidavit of A. Joseph Cavicchi, December 29, 2011.
- **Constellation NewEnergy, Inc.**
United States of America, Before the Federal Energy Regulatory Commission, San Diego Gas & Electric Company, Complainant, v. Sellers of Energy and Ancillary Services into Markets Operated by the CA ISO and CA Power Exchange, et al., Respondents, Docket No. EL00-95-248
Direct Testimony and Exhibits of Constellation NewEnergy, Inc., Direct and Answering Testimony and Exhibits of A. Joseph Cavicchi on behalf of Constellation NewEnergy, October 25, 2011. Written, Public.
- **CP Energy**
United States of America, Before the Federal Energy Regulatory Commission, RE: Triennial Market-Based Rate Update for the Northeast Region, Docket No. ER10-1342 et al.
Affidavit of A. Joseph Cavicchi, June 30, 2011. Written, Public.
- **Edison Mission**
United States of America, Before the Federal Energy Regulatory Commission, RE: Triennial Market-Based Rate Update for the Northeast Region, Edison Mission Marketing and Trading, et al., Docket No. ER11-___-000, et al.

Affidavit of A. Joseph Cavicchi, June 29, 2011. Written, Public.

- **Entegra Power Services, LLC**
United States of America, Before the Federal Energy Regulatory Commission, Gila River Energy Supply LLC, Docket No. ER11-____-000, Request for Acceptance of Initial Market-Based Rate Tariff, Waivers and Blanket Authority Under Section 205 of the Federal Power Act
Affidavit of A. Joseph Cavicchi, April 11, 2011. Written, Public.
- **PPL Corporation**
United States of America, Before the Federal Energy Regulatory Commission, Triennial Market-Based Rate Update for the Northwest Region, PPL Northwest Companies, ER10-2011-000 et al.
Affidavit of A. Joseph Cavicchi on behalf of the PPL Northwest Companies, January 31, 2011. Written, Public.
- **Entegra Power Services LLC**
United States of America, Before the Federal Energy Regulatory Commission, Gila River Power, LP, Docket No. ER05-1178-015 and Entegra Power Services LLC, Docket ER09-838-001, Second Supplement to Updated Market Power Analysis for Continued Market-Based Rate Authority in Compliance with Order No. 697
Second Supplement Affidavit of A. Joseph Cavicchi, January 12, 2011. Written, Public.
- **PPL Corporation**
United States of America, Before the Federal Energy Regulatory Commission, RE: Notice of Change of Status Regarding Market-Based Rate Authority, Docket No. ER10-1511-001 et al.
Affidavit of A. Joseph Cavicchi on behalf of PPL Corporation, December 1, 2010. Written, Public.
- **Entegra Power Services LLC**
United States of America, Before the Federal Energy Regulatory Commission, Gila River Power, LP, Docket No. ER05-1178-015 and Entegra Power Services LLC, Docket ER09-838-001
Supplement to Updated Market Power Analysis for Continued Market-Based Rate Authority in Compliance with Order No. 697. Affidavit of A. Joseph Cavicchi, November 19, 2010. Written, Public.
- **Chesapeake Energy Corp., et al.**
Before the Public Utilities Commission of the State of Colorado, In the Matter of Commission Consideration of Public Service Company of Colorado Plan in Compliance with House Bill 10-1365 "Clean Air Jobs Act," Docket No. 10M-245E
Testimony of A. Joseph Cavicchi on behalf of Noble Energy, Inc., Chesapeake Energy Corporation and Encana Oil & Gas (USA), November 1, 2010. Oral, Public. November 9, 2010. Written, Public. November 18, 2010. Oral, Public.
- **Chesapeake Energy Corp., et al.**
Before the Public Utilities Commission of the State of Colorado, In the Matter of Commission Consideration of Public Service Company of Colorado Plan in Compliance with House Bill 10-1365 "Clean Air Jobs Act," Docket No. 10M-245E
Cross Answer Testimony and Exhibits of A. Joseph Cavicchi on behalf of Noble Energy, Inc., Chesapeake Energy Corporation and Encana Oil & Gas (USA), October 8, 2010. Written Report Public, Exhibits Confidential, Filed Under Seal.
- **Chesapeake Energy Corp., et al.**

Before the Public Utilities Commission of the State of Colorado, In the Matter of Commission Consideration of Public Service Company of Colorado Plan in Compliance with House Bill 10-1365 "Clean Air Jobs Act," Docket No. 10M-245E

Answer Testimony and Exhibits of A. Joseph Cavicchi on behalf of Noble Energy, Inc., Chesapeake Energy Corporation and Encana Oil & Gas (USA), September 17, 2010. Written, Confidential.

▪ **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, 2011 through May 31, 2014, Docket No. P-2008-2060309

Statement No. 2. Direct Testimony of A. Joseph Cavicchi on behalf of PPL Electric, September 14, 2010. Oral, Written and Public.

▪ **PPL Corporation and E.ON U.S.**

United States of America, Before the Federal Energy Regulatory Commission, RE: PPL Corporation and E.ON U.S. LLC Application for Authorization Under Section 203 of the Federal Power Act, Request for Waivers of Filing Requirements, and Confidential Treatment of Agreement and Workpapers, Docket No. EC10-77-000

Affidavit of Dr. Joseph P. Kalt and Mr. A. Joseph Cavicchi, June 28, 2010.

▪ **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. Testimony of A. Joseph Cavicchi on behalf of Masspower, March 18 and 19, 2010. Oral, Public.

▪ **Allegheny**

United States of America, 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**

United States of America, 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**

United States of America, 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**

United States of America, 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. Written, 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**

United States of America, Before the Federal Energy Regulatory Commission, Request for Acceptance of Initial Market-Based Rate Tariff, RE: Updated Market Power Analysis for EPS' Affiliate, Gila River, Docket ER09-838-000

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

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 Nos. 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.
- **PJM Power Providers 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.
- **PPL Corporation**
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

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- **PPL Corporation**
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- **PPL Corporation**
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“Getting ELCC Right – Managing the Changing Fleet,” EUCI Applying ELCC in ISOs and Utility Balancing Areas to Ensure Resource Adequacy (December 14, 2021).

“Overview of Ancillary Services, Regulation and Reserve Products in Wholesale Markets,” EUCI Ancillary Services Fundamentals and Market Dynamics (August 25, 2021).

“Market Power Monitoring and Mitigation in RTO/ISOs,” EUCI Electricity Market Power, Manipulation, Regulation and Enforcement (April 20, 2021).

“Critical Elements of Ancillary Services Market Design and Costing,” EUCI Ancillary Services Fundamentals and Market Dynamics Workshop (December 1, 2020).

“Achieving Western States Green House Gas (GHG) Reduction Objectives: Effective, Least-Cost Compliance in a Constantly Evolving Policy Environment,” presented with Todd Schatzki, Washington CETA Markets Workgroup (August 28, 2020).

“Carbon Pricing for New England,” NEPOOL Participants Committee Meeting (August 6, 2020).

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“Forward Capacity Auctions: Financial, Physical, or Both,” EUCI (November 7, 2013).

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“Fundamentals of Capacity Market Design and Performance,” EUCI (November 6, 2013).

“Electricity Industry Fundamentals,” EUCI (January 29-30, 2013).

“Market Power Monitoring and Mitigation in Electric Capacity Markets,” Capacity Markets: Achieving Market Price Equilibrium?, EUCI (October 4, 2012).

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“Economics and Regulation of Large Scale Renewable Resource Electricity System Transmission Additions,” Center for Research in Regulated Industries, Eastern Conference, Rutgers University (May 6, 2010).

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“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?” 24th Annual North American Conference of the USAEE/IAEE, Washington, DC (July 9, 2004).

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“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 4th 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’s 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 3rd 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,” 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/ACCREDITATIONS

1992–Present Registered Professional Engineer, Commonwealth of Massachusetts

PROFESSIONAL ASSOCIATIONS AND MEMBERSHIPS

2002–2012 Board of Directors, Northeast Energy and Commerce Association