

# **Exhibit 1-CAB**

**17-035-61 Phase 2 Vote Solar Exhibit 1-CAB 5-8-2020 Berry**

## CAROLYN A. BERRY, PHD

### Principal

#### AREAS OF EXPERTISE

- Market design and analysis
- Regulatory and tariff analysis
- Market power and mitigation
- Energy policy and strategy
- Cost allocation
- Gaming and manipulation



#### SUMMARY OF EXPERIENCE

Carolyn Berry is an energy economist with the Energy Practice. She specializes in market design and analysis, policy formation, and regulatory issues in the energy industry, including collaborating and advising on electric and gas market initiatives and strategy. She has a proven track record as an expert witness in litigated proceedings and in achieving settlement with adverse parties. Dr. Berry has extensive experience leading and collaborating with key players in the California electricity and gas markets. She has achieved resolution of energy litigation in federal courts.

Dr. Berry has prepared testimony, directed and performed technical analyses, and provided policy recommendations particularly to California energy companies on a wide array of issues: electricity market bidding and scheduling practices and market design, natural gas markets and costs, cost-allocation mechanisms, and refund and overcharge calculations. Additionally, she has worked with domestic and international clients on energy market issues such as decoupling, uplift costs, avoided costs, virtual bidding, gaming strategies in centralized auctions, transmission pricing, optimal allocation of transmission rights, and retail electricity markets. She also has extensive experience with the Federal Energy Regulatory Commission, having worked on a wide variety of topics, including mergers, deregulation, cost recovery, rate determination, auction markets, congestion management, and market monitoring.

#### EDUCATION

- PhD, Economics, Northwestern University
- BS, Economics, University of Minnesota
- BA, Spanish, University of Minnesota

#### PROFESSIONAL EXPERIENCE

- Bates White Economic Consulting, Washington, DC
  - Principal, 2017–present

- Pacific Gas and Electric Company, San Francisco, CA
  - Manager, Energy Policy and Procurement, 2014–2017
- Private Economic Consultant, Washington, DC
  - Owner, 2002–2014
- National Economic Research Associates (NERA), Washington, DC
  - Senior Consultant, 2000–2002
- Federal Energy Regulatory Commission, Washington, DC
  - Senior Economist, 1994–2000
- Universitat Pompeu Fabra, Barcelona, Spain
  - Assistant Professor, Facultat De Ciències Econòmiques, 1992–1993
- Northwestern University, Evanston, Illinois
  - Lecturer, 1989–1992

## **SELECTED BUSINESS AND CONSULTING EXPERIENCE**

- On behalf of the South Carolina Legislature, provided analysis of testimonies filed by South Carolina Electric & Gas, and defended prior analysis for the South Carolina Senate in proceeding at the U.S. District Court for the District of South Carolina Columbia Division.
- On behalf of a Canadian client, performed an audit of dispatch costs of Nova Scotia Power.
- On behalf of a South Carolina regulatory client, co-authored a white paper on the topic of the securitization as used in the utility industry.
- On behalf of the South Carolina State Senate, provided an analysis of an interim reduction in the rates that could be sustained by South Carolina Electric & Gas without significantly increasing the likelihood of insolvency.
- On behalf of a Canadian client, provided survey of price formation under market rules that constrain auction based market-clearing prices.
- On behalf of the California Parties, a group of investor-owned utilities and state agencies, led teams responsible for developing energy crisis settlement valuations. Represented the Parties and company in settlement negotiations requiring the development of creative approaches to issue resolution and consensus building.
- Provided analysis of electric utility energy procurement issues including distributed energy resource interconnection issues.
- Determined just and reasonable rates for electric energy and ancillary services sales in the California ISO and PX markets. Process required analysis of ISO and PX market rules and tariffs, FERC orders, and the Federal Power Act.
- Conducted analysis of market power and market manipulation in the California and WECC electric markets through bidding strategies, energy and transmission scheduling practices, and trading strategies. Submitted written testimony and presented at FERC hearings.

- Analyzed and determined costs for sales of energy and ancillary services of sellers in the California ISO and PX markets. Provided analysis of natural gas purchases and trading, emissions regulations and costs, energy purchasing in the WECC, transmission costs, risk, and opportunity costs.
- Conducted survey of revenue decoupling in the US natural gas and electricity markets.
- Provided recommendations on the applicability and suitability of cost of service pricing in developing countries.
- For a US client, prepared independent report on uplift costs associated with virtual bidding in US organized electricity markets and analyzed alternative costs allocation methodologies.
- Analyzed the removal of electric transmission capacity in the Pacific Northwest from the California ISO-controlled grid. Identified various inefficiencies and gaming opportunities that arise when electric transmission is governed by different sets of rules.
- Provided analysis of but-for pricing for a New Zealand client to determine the allocation of costs for transmission investment in the PJM markets.
- Provided assistance to the Brazilian National Electricity System Operator (ONS) in the development of economically efficient methods of procuring ancillary services compatible with the Brazilian electricity market. Examined the feasibility of market-based provision of ancillary services in the electric sector and prepared a proposal for the commercialization of these services.
- Prepared a report containing recommendations on institutional strengthening for ANEEL, the federal electricity regulator in Brazil.
- Analyzed the initial proposals for the creation of the PJM, New England, and California ISOs and the associated market restructuring.
- Analyzed the competitive effects of the competitive effects of the 1997 merger of Duke Power Company and PanEnergy Corporation that formed Duke Energy Corporation.
- Analyzed the competitive effects of the competitive effects of the 1995 merger of Southwestern Public Service Company and Public Service Company of Colorado.
- Worked in the Office of Economic Policy at FERC during the crafting of FERC Order 888, the formation of the eastern and California ISOs, and the revision of merger policy.

## TESTIFYING EXPERIENCE

July 31, 2018	U.S. District Court for the District of South Carolina Columbia Division. Testimony at hearing in front of Honorable Judge Childs regarding SCE&G's Motion for Preliminary Injunction. <i>Regarding:</i> Experimental rate.
May 13, 2016	Federal Energy Regulatory Commission, Docket No. EL00-95-288. Declaration of Dr. Carolyn A. Berry on Behalf of California Parties concerning California Parties' Protest and Answer to Opinion No. 536-B Compliance Filings. <i>Regarding:</i> Calculation of seller refunds and overcharges including cost offsets.
October 6, 2015	Federal Energy Regulatory Commission, Docket Nos. EL02-60-007 and EL02-62-006 (Consolidated). Prepared Rebuttal Testimony of Carolyn A. Berry, Ph.D. on Behalf of the California Parties, (Exh. No. CAL-706). <i>Regarding:</i> The effect of Shell's misreporting on

natural gas index publications and the link between Shell's unlawful conduct and the formation of the Shell long-term energy contract with the California Department of Water Resources.

- May 19, 2015 Federal Energy Regulatory Commission, Docket Nos. EL02-60-007 and EL02-62-006 (Consolidated). Prepared Direct Testimony of Carolyn A. Berry, Ph.D. on Behalf of the California Parties, (Exh. No. CAL-268). *Regarding:* Analysis of intentional misreporting of natural gas transactions to index publications by Shell Energy North American and the link between Shell's unlawful conduct and the formation of the Shell long-term energy contract with the California Department of Water Resources.
- March 2, 2015 Federal Energy Regulatory Commission, Docket No. EL00-95-281. Declaration of Dr. Carolyn A. Berry on Behalf of California Parties concerning California Parties' Protest and Answer to Compliance Filings. *Regarding:* Calculation of seller refunds and overcharges for pre-refund period including cost offsets.
- December 10, 2014 Federal Energy Regulatory Commission, Docket No. EL00-95-248. Declaration of Dr. Carolyn A. Berry on Behalf of California Parties concerning California Parties' Motion for Procedures for Compliance Filings and Request for Expedited Action. *Regarding:* Informational requirements and reporting templates for the calculation of refunds and overcharges for sales in the California ISO and PX during the Summer period.
- May 3, 2013 Federal Energy Regulatory Commission, Docket No. EL00-95-248. Declaration of Dr. Carolyn A. Berry on Behalf of California Parties concerning California Parties' Motion for Determination of Overcharges and for Refunds. *Regarding:* Calculation of net buyer positions to determine refunds owed by net sellers to net buyers.
- March 12, 2013 Federal Energy Regulatory Commission, Docket No. EL01-10-085. Prepared Rebuttal Testimony of Dr. Carolyn A. Berry on Behalf of California Parties, (Exh. No. CAT-536). *Regarding:* Market power in PNW electricity markets.
- September 21, 2012 Federal Energy Regulatory Commission, Docket No. EL01-10-085. Prepared Direct Testimony of Dr. Carolyn A. Berry on Behalf of California Parties, (Exh. No. CAT-213). *Regarding:* Market power in PNW markets and the determination of the physical source of energy sales to California.
- March 1, 2012 Federal Energy Regulatory Commission, Docket No. EL00-95-248. Prepared Rebuttal Testimony of Dr. Carolyn A. Berry on Behalf of California Parties, (Exh. No. CAX-260). *Regarding:* Anomalous bidding and anti-competitive behavior in CAISO RT market and the amount of overcharges.
- August 23, 2011 Federal Energy Regulatory Commission, Docket No. EL00-95-248. Prepared Direct Testimony of Dr. Carolyn A. Berry on Behalf of California Parties, (Exh. No. CAX-110). *Regarding:* Anomalous bidding tariff violations in California ISO RT market under the CAISO tariff, computation of competitive baseline prices in the California ISO RT market using dispatch model independently developed for the analysis, and the calculation of overcharges and refunds in the California ISO energy and ancillary services markets for the Summer 2000.

- December 16, 2009 Federal Energy Regulatory Commission, Docket No. EL02-71-000. Rebuttal Testimony of Dr. Carolyn A. Berry on Behalf of California Parties, (Exh. No. CLP-73). *Regarding:* Assessment of quarterly reporting violations under the Commission's rules and remedies for these tariff violations.
- July 1, 2009 Federal Energy Regulatory Commission, Docket No. EL02-71-000. Testimony of Dr. Carolyn A. Berry on Behalf of California Parties, (Exh. No. CLP-1). *Regarding:* Assessment of quarterly reporting violations under the Commission's rules and remedies for these tariff violations.
- June 8, 2009 Federal Energy Regulatory Commission, Docket No. EL01-68-000. Declaration of Dr. Carolyn A. Berry on Behalf of California Parties. *Regarding:* Analytical support for California Parties' Motion for Refunds for Unauthorized Rates in Excess of the Post-June 19, 2001 Proxy Market Clearing Price. Determination of rates in excess of just and reasonable rates as specified in FERC orders.
- May 22, 2009 Federal Energy Regulatory Commission, Docket No. EL09-56-000. Testimony of Dr. Carolyn A. Berry on Behalf of the State of California, *ex rel.* Edmund G. Brown Jr., Attorney General. *Regarding:* Assessment of reporting violations and determination of remedies to the California Energy Resources Scheduling Division of the California Department of Water Resources.
- May 22, 2009 Federal Energy Regulatory Commission, Docket No. EL00-95-000. Testimony of Dr. Carolyn A. Berry on Behalf of California Parties Regarding Remedies. *Regarding:* Methodology to determine refunds in support of the California Parties' motion for summary disposition.
- May 22, 2009 Federal Energy Regulatory Commission, Docket Nos. EL00-95-000. Testimony of Dr. Carolyn A. Berry on Behalf of California Parties Regarding Mis-Reporting in Quarterly Reports. *Regarding:* Assessment of quarterly reporting violations under Commission rules.
- December 22, 2008 Federal Energy Regulatory Commission Docket No. EL00-95-164. Declaration of Dr. Carolyn A. Berry on Behalf of California Parties. *Regarding:* Methodology to compute refunds owed to governmental entities and other non-public utilities.
- April 21, 2008 Federal Energy Regulatory Commission, Docket No. EL02-71-004. Declaration of Dr. Carolyn A. Berry on Behalf of California Parties concerning FERC Quarterly Reporting. *Regarding:* Assessment of quarterly reporting violations under Commission rules.
- November 19, 2007 Federal Energy Regulatory Commission, Docket Nos. EL00-95-164. Declaration of Dr. Carolyn A. Berry on Behalf of California Parties. *Regarding:* Methodology to compute refunds owed to governmental entities and other non-public utilities supporting California Parties' Second Request for Rehearing and Clarification of the Commission's October 19, 2007 Order on Remand.
- October 5, 2007 Federal Energy Regulatory Commission, Docket No. ER07-1373. Declaration of Dr. Carolyn A. Berry on Behalf of Pacific Gas and Electric Company. *Regarding:* Transmission operating agreement on the California-Oregon Intertie.

- July 24, 2007 Federal Energy Regulatory Commission, Docket Nos. EL07-75-000 and EC07-99-000. Declaration of Dr. Carolyn A. Berry on Behalf of the People of the State of California, *ex rel.* Edmund G. Brown Jr., Attorney General, the California Electricity Oversight Board, and the Public Utilities Commission of the State of California. *Regarding:* Impact of proposed merger in Great Plains Energy Incorporated, Kansas City Power & Light Company, and Aquila, Inc. on the ability of secure energy crisis refunds.
- January 19, 2007 Federal Energy Regulatory Commission, Docket Nos. EL00-95-000 *et al.*, EL00-98-000 *et al.*, EL00-98-042, and EL00-98-063. Declaration of Dr. Carolyn A. Berry on Behalf of California Parties Concerning the APX Settlement and Release of Claims Agreement. *Regarding:* Impact of proposed settlement on market resolution of energy crisis refunds.
- December 4, 2006 Federal Energy Regulatory Commission, Docket Nos. EL00-95-000 *et al.*, EL00-95-154, EL00-95-175, EL00-95-180, EL00-98-000 *et al.*, EL00-98-141, EL00-98-161, and EL00-98-166. Prepared Testimony of Dr. Carolyn A. Berry on Behalf of the California Parties. *Regarding:* Errors in November 2006 Cost Filing Submission of Powerex Corp.
- December 4, 2006 Federal Energy Regulatory Commission, Docket Nos. EL00-95-000, EL00-95-174, EL00-98-000, and EL00-98-160. Prepared Testimony of Dr. Carolyn A. Berry on Behalf of the California Parties Concerning the Cost Filing Submission of Portland General Electric Company Dated November 16, 2006.
- June 12, 2006 Federal Energy Regulatory Commission, Docket Nos. EL00-95-000 and EL00-98-000. Declaration of Dr. Carolyn A. Berry on Behalf of California Parties Concerning Allocation of Cost Recovery Refund Offsets.
- April 13, 2006 Superior Court of the State of California in and for the County of San Diego, J.C.C.P. Nos. 4221,4224, 4226 and 4228. Declaration of Carolyn A. Berry in Support of PG&E's Objections To Class Settlement, in Natural Gas Anti-Trust Cases I, II, III & IV. *Regarding:* Refunds owed by Sempra for overcharges in the California electric markets.
- March 29, 2006 Federal Energy Regulatory Commission, Docket Nos. EL00-95-000 *et al.*, EL00-95-154, EL00-95-175, EL00-95-180, EL00-98-000 *et al.*, EL00-98-141, EL00-98-161, and EL00-98-166. Prepared Responsive Testimony of Dr. Carolyn A. Berry on Behalf of the California Parties Concerning Cost Recovery Compliance Filing of Powerex Corp.
- March 29, 2006 Federal Energy Regulatory Commission, Docket Nos. EL00-95-000, EL00-95-144, EL00-95-174, EL00-98-000, EL00-98-131, and EL00-98-160. Prepared Responsive Testimony of Dr. Carolyn A. Berry on Behalf of the California Parties Concerning the Supplemental Cost Recovery Filing of Portland General Electric Company.
- March 20, 2006 Federal Energy Regulatory Commission, Docket Nos. EL00-95-000, EL00-95-142, EL00-98-000, and EL00-98-129. Prepared Testimony of Dr. Carolyn A. Berry on Behalf of the California Parties Concerning Cost Filing Submission of Puget Sound Energy to the California Independent System Operator.
- March 13, 2006 Federal Energy Regulatory Commission, Docket Nos. EL00-95-000, EL00-95-154, EL00-95-175, EL00-98-000, EL00-98-141, and EL00-98-161. Prepared Supplemental

Testimony of Dr. Carolyn A. Berry on Behalf of the California Parties Concerning Cost Recovery Compliance Filing of Powerex Corp.

- February 27, 2006 Federal Energy Regulatory Commission, Docket Nos. EL00-95-000, EL00-95-144, EL00-98-000, and EL00-98-131. Prepared Testimony of Dr. Carolyn A. Berry on Behalf of the California Parties Concerning Cost Recovery Compliance Filing of Portland General Electric Company.
- February 27, 2006 Federal Energy Regulatory Commission, Docket Nos. EL00-95-000, EL00-95-154, EL00-98-000, and EL00-98-141. Prepared Testimony of Dr. Carolyn A. Berry on Behalf of the California Parties Concerning Cost Recovery Compliance Filing of Powerex Corp.
- December 1, 2005 Federal Energy Regulatory Commission, Docket Nos. EL00-95-000, EL00-98-000, and ER03-746-000. Declaration of Dr. Carolyn A. Berry on Behalf of the California Parties in support of, "California Parties' Disputes Relating to Cost Offsets and Refund Re-runs."
- October 24, 2005 Federal Energy Regulatory Commission, Dockets EL00-95-142 and EL00-98-129. Prepared Supplemental Testimony of Dr. Carolyn A. Berry on Behalf of the California Parties Concerning Cost Filing of Puget Sound Energy.
- October 24, 2005 Federal Energy Regulatory Commission, Dockets EL00-95-147 and EL00-98-134. Prepared Supplemental Testimony of Dr. Carolyn A. Berry on Behalf of the California Parties Concerning Cost Filing of Idaho Power Company and IdaCorp Energy L.P.
- October 25, 2005 Federal Energy Regulatory Commission, Dockets EL00-95-154 and EL00-98-141. Prepared Supplemental Testimony of Dr. Carolyn A. Berry on Behalf of the California Parties Concerning Cost Filing of Powerex Corp.
- October 11, 2005 Federal Energy Regulatory Commission, Dockets EL00-95-146 and EL00-98-133. Prepared Testimony of Dr. Carolyn A. Berry Concerning Cost Filing of TransAlta Energy Marketing (US) Inc.
- October 11, 2005 Federal Energy Regulatory Commission, Dockets EL00-95-147 and EL00-98-134. Prepared Testimony of Dr. Carolyn A. Berry on Behalf of the California Parties Concerning Cost Filing of Idaho Power Company and IdaCorp Energy L.P.
- October 11, 2005 Federal Energy Regulatory Commission, Dockets EL00-95-144 and EL00-98-131. Prepared Testimony of Dr. Carolyn A. Berry on Behalf of the California Parties Concerning Cost Filing of Portland General Electric Company.
- October 11, 2005 Federal Energy Regulatory Commission, Dockets EL00-95-154 and EL00-98-141. Prepared Testimony of Dr. Carolyn A. Berry Concerning Cost Filing of Powerex Corp.
- October 11, 2005 Federal Energy Regulatory Commission, Dockets EL00-95-141 and EL00-98-128. Prepared Testimony of Dr. Carolyn A. Berry on Behalf of the California Parties Concerning Cost Filing of the PPL Montana LLC and PPL EnergyPlus LLC.
- October 11, 2005 Federal Energy Regulatory Commission, Dockets EL00-95-143 and EL00-98-130. Prepared Testimony of Dr. Carolyn A. Berry on Behalf of the California Parties Concerning Cost Filing of the Public Service Company of New Mexico.



October 11, 2005 Federal Energy Regulatory Commission, Dockets EL00-95-142 and EL00-98-129. Prepared Testimony of Dr. Carolyn A. Berry on Behalf of the California Parties Concerning Cost Filing of Puget Sound Energy.

October 11, 2005 Federal Energy Regulatory Commission, Dockets EL00-95-138 and EL00-98-125. Prepared Testimony of Dr. Carolyn A. Berry on Behalf of the California Parties Concerning Cost Filing of Edison Mission Marketing & Trading, Inc.

August 31, 2005 California Public Utilities Commission, Rulemaking Nos. 04-04-003 and 04-04-025. "Pacific Gas and Electric Company Prepared Testimony on Qualifying Facilities Policy and Pricing Issues," Chapter 3, Section D, Proposed SRAC Energy Prices and Chapter 3B, Appendix B, Calculation of Overpayments from Mandated QF S01 Extensions Pursuant to Decisions 03-12-062 and 04-01-050.

August 22, 2005 Federal Energy Regulatory Commission, Docket Nos. EL00-95 and EL00-98. Declaration of Dr. Carolyn A. Berry on Behalf of the California Parties in support of "California Parties' Comments in Support of Cost Filing Template."

July 12, 2005 Federal Energy Regulatory Commission, Docket Nos. EL00-95-127, 081, 074, and 086 and EL00-98-114, 069, 062, and 073. Declaration of Dr. Carolyn A. Berry on Behalf of the California Parties Concerning the LADWP Revised Compliance Filing in support of "California Parties' Comments in Opposition to Revised Emissions Calculations and Compliance Filing of the City of Los Angeles Department of Water and Power."

May 9, 2005 Federal Energy Regulatory Commission, Docket Nos. EL00-95-127, 081, 074, and 086 and EL00-98-114, 069, 062, and 073. Declaration of Dr. Carolyn A. Berry on Behalf of the California Parties in support of "California Parties' Supplemental Comments in Response to Emissions Calculations and Compliance Filing of the City of Los Angeles Department of Water and Power."

April 7, 2005 Department of Energy, Office of Coal and Power, Import/Export Office of Fossil Energy, Docket No. EA-171-B. Reply Declaration of Dr. Carolyn A. Berry on Behalf of the California Entities in support of "California Entities' Petition to Intervene and Protest Application of Powerex Corporation for Renewal of Export License." *Regarding:* Violations of Powerex's export license.

March 7, 2005 Department of Energy, Office of Coal and Power, Import/Export Office of Fossil Energy, Docket No. EA-171-B. Declaration of Dr. Carolyn A. Berry on Behalf of the California Entities in support of "California Entities' Petition to Intervene and Protest Application of Powerex Corporation for Renewal of Export License."

January 19, 2005 Federal Energy Regulatory Commission, Docket Nos. EL00-95 and EL00-98. Reply Declaration of Dr. Carolyn A. Berry on Behalf of the California Parties in support of "California Parties' Reply Comments on the Substance, Format and Support for Cost-Based Filings."

January 10, 2005 Federal Energy Regulatory Commission, Docket Nos. EL00-95 and EL00-98. Declaration of Dr. Carolyn A. Berry on Behalf of the California Parties in support of "California Parties' Comments on the Substance, Format and Support for Cost-Based Filings."

- June 14, 2004 Federal Energy Regulatory Commission, Docket No. EL00-95-087. Declaration of Dr. Carolyn A. Berry in support of “California Parties’ Request for Rehearing of May 12 Order on Requests for Rehearing and Clarification.” *Regarding:* Price mitigation of the \$2.9 billion imbalance energy sales by the California Energy Resource Scheduling Division of the California Department of Water Resources.
- April 26, 2004 Federal Energy Regulatory Commission, Docket Nos. EL03-166-000. Declaration of Dr. Carolyn A. Berry in support of “California Parties’ Request for Rehearing of Order Approving Contested Settlement Agreement Between FERC Trial Staff and Powerex Corporation.” *Regarding:* Powerex gaming in the California electric markets and unauthorized partnerships.
- February 17, 2004 California Public Utilities Commission, R.99-11-022. Declaration of Dr. Carolyn A. Berry in support of “Opening Comments of Pacific Gas and Electric Company, The Office of Ratepayer Advocates, and the Utility Reform Network Regarding Qualifying Facility SRAC Payments From December 2000 Through March 2001.” *Regarding:* Level of short-run avoided cost (SRAC) payments.
- January 20, 2004 Federal Energy Regulatory Commission, Docket Nos. IN03-10-000, PA02-2-000, *et al.* Declaration of Dr. Carolyn A. Berry in support of “California Parties’ Request For Rehearing of Order Approving Stipulation and Consent Agreement With Duke.”
- November 20, 2003 Federal Energy Regulatory Commission, Docket Nos. EL03-166-000, EL03-199-000, *et al.* Declaration of Dr. Carolyn A. Berry in support of “California Parties’ Comments in Opposition to Proposed Agreement and Stipulation by Powerex Corp. and FERC Trial Staff.” *Regarding:* Powerex gaming in the California electric markets and unauthorized partnerships.
- September 30, 2003 Federal Energy Regulatory Commission, Docket No. EL03-179-000. Declaration of Dr. Carolyn A. Berry in support of “Comments of Pacific Gas and Electric Company and Southern California Edison Company in Opposition to the Williams Settlement.” *Regarding:* Williams gaming in the California electric markets and unauthorized partnerships.
- May 21, 2003 Federal Energy Regulatory Commission, Docket Nos. EL00-95-045 and EL00-98-042. Declaration of Dr. Carolyn A. Berry on Behalf of the California Parties in support of “California Parties’ Motion to Reject Gas Cost Allowance Filings, Clarify Scope of Permissible Costs, and Establish Procedures.” *Regarding:* Fuel cost allowance methodology and claims.
- May 2, 2003 Federal Energy Regulatory Commission, Docket Nos. PA02-2-000, EL00-95-075, and EL00-98-063. Declaration of Carolyn A. Berry on Behalf of Pacific Gas and Electric Company in *Fact Finding Investigation of Potential Manipulation of Electric and Natural Gas Prices*. *Regarding:* Method to compute natural gas cost allowance.
- March 3, 2003 Federal Energy Regulatory Commission, Docket No. EL00-95-000 (100 Days Discovery). Prepared Testimony of Dr. Carolyn A. Berry on Behalf of the California Parties. *Regarding:* Anomalous bidding in the California ISO spot electricity markets.

- October 15, 2002 Federal Energy Regulatory Commission, Docket Nos. EL00-95-045 and EL00-98-042. Declaration of Dr. Carolyn A. Berry on Behalf of Pacific Gas & Electric Company and the California Parties in response to the Commission's request for comments regarding the method for determining natural gas prices for purposes of calculating refunds as described in the staff report, "Initial Report on Company-Specific Separate Proceedings and Generic Reevaluations; Published Natural Gas Price Data; and Enron Trading Strategies" in Docket PA02-2-000.
- August 9, 2002 Federal Energy Regulatory Commission, Docket Nos. EL00-95-045. Prepared Surrebuttal Testimony of Dr. Carolyn A. Berry on Issues 2 and 3 Submitted on Behalf of the California Parties. *Regarding:* Application of the MMCP methodology during the Refund Period.
- July 26, 2002 Federal Energy Regulatory Commission, Docket Nos. EL00-95-045. Prepared Rebuttal Testimony on Issues 2 and 3 of Dr. Carolyn A. Berry on Behalf of the California Parties. *Regarding:* Application of the MMCP methodology during the Refund Period.
- July 3, 2002 Federal Energy Regulatory Commission, Docket Nos. EL00-95-045. Prepared Responsive Testimony on Issues 2 and 3 of Dr. Carolyn A. Berry on Behalf of the California Parties. *Regarding:* Application of the MMCP methodology during the Refund Period.
- February 25, 2002 Federal Energy Regulatory Commission, Docket Nos. EL00-95-045. Prepared Rebuttal Testimony on Behalf of the California Parties. *Regarding:* Computation and application of the MMCP methodology during the Refund Period.
- February 4, 2002 Federal Energy Regulatory Commission, Docket Nos. EL00-95-001, EL00-98-001, *et al.* Declaration of Dr. Carolyn A. Berry in Support of Response of the California Parties. *Regarding:* Effects of the application of the MMCP as a clearing price, instead of cap.
- January 31, 2002 Federal Energy Regulatory Commission, Docket Nos. EL00-95-045. Prepared Supplemental Responsive Testimony on Behalf of the California Parties. *Regarding:* Modified analysis of bid prices for mitigated market clearing prices.
- November 6, 2001 Federal Energy Regulatory Commission, Docket Nos. EL00-95-045. Prepared Responsive Testimony on Behalf of the California Parties. *Regarding:* Analysis of heat rates and bid prices for the calculation of mitigated market clearing prices.
- July 8, 2001 Federal Energy Regulatory Commission, Docket EL00-95-031. Testimony on behalf of Pacific Gas and Electric Company. *Regarding:* Refund methodology for overcharges in California markets.
- November 22, 2000 Federal Energy Regulatory Commission, Docket EL00-95-000. Testimony on behalf of Pacific Gas and Electric Company in support of "Comments, Motion for Expedited Relief, and Application for Rehearing of PG&E." *Regarding:* Estimation of margins earned by sellers for sales to the ISO and PX electricity and ancillary services markets during the summer period 2000.

February 8, 2000 Federal Energy Regulatory Commission, Dockets ER98-495-000, ER98-496-006, ER98-496-000, *et al.* Prepared Direct Testimony on behalf of the Federal Energy Regulatory Commission. *Regarding:* Payments to reliability must run units in the California Independent System Operator market.

## PUBLICATIONS

- "Market Power Analysis of the Electricity Generation Sector," with William H. Hieronymous and J. Stephen Henderson. *Energy Law Journal* 23, no. 1 (2002).
- "Understanding How Market Power Can Arise in Network Competition: A Game Theoretical Approach," with Benjamin F. Hobbs, William A. Meroney, Richard P. O'Neill, and William R. Stewart, Jr. *Utilities Policy* 8, no 3 (1999).
- "Why Are Nodal Prices Sometimes Higher than \$1,000 If Supply Bids Are Capped at \$1,000?" *Economic Note*, FERC, August 1999.

## PRESENTATIONS AND PANELS

- "FERC's Anti-Market Manipulation: Enforcement and Compliance Issues to Watch Out For." LIVE Webcast, The Knowledge Group, October 2019.
- "Base Refund Calculation for Energy and Ancillary Services." Presentation at industry-wide energy crisis settlement conference, Washington, DC, September 2006.
- "California Energy Crisis." Kogod Interactive Third Annual MBA Conference on Business Trends, American University Kogod School of Business, Washington, DC, February 2002.
- "California Electric Industry Restructuring: What Went Wrong? Where Do We Go from Here?" Forum for Women State Legislators, Power Politics: Energy Policy in the United States, Dan Point, CA, November 2001.
- "Distribution Services under Retail Access." World Bank presentation, Washington, DC, June 2001.
- "California Power Crisis: Implications for Power Sector Reform in Emerging Economies?" With William Meroney, Seminar in Energy Markets and Reform Thematic Group, World Bank, Washington, DC, January 2001.
- "Analyzing Strategic Behavior in Transmission Networks." by Carolyn A. Berry, Benjamin F. Hobbs, William A. Meroney, Richard P. O'Neill, and William R. Stewart, Jr., presentation at the IEEE/PES Power Engineering Society 1999 Summer Meeting, Edmonton, Alberta, Canada, July 22, 1999.

## PROFESSIONAL ASSOCIATIONS

- International Association for Energy Economics
- American Economic Association
- Women's Council on Energy and the Environment

## LANGUAGES

- Spanish (fluent)