



Professional Experience

M.Cubed, Partner, 1993-2008, 2014-present

Aspen Environmental Group, Senior Associate, 2008-2013

Foster Associates/Spectrum Economics/QED Research, Senior Economist, 1986-1992

Dames & Moore, Economist, 1985-1986

Academic Background

PhD, Agricultural and Resource Economics, University of California, Berkeley, 1998

MS, Agricultural and Resource Economics, University of California, Berkeley, 1990

MPP, Institute of Public Policy Studies, University of Michigan, 1986

BS, Political Economy of Natural Resources, University of California, Berkeley, 1981

Dr. McCann specializes in environmental and energy resource economics and policy. He has testified before and prepared reports on behalf of numerous federal, state and local regulatory agencies on energy, air quality, and water supply and quality issues.

Selected Projects

- **Utilities Cost of Capital Testimony, Environmental Defense Fund (2019-present).** Testified at the California Public Utilities Commission in the four 2020, 2023 and 2026 Cost of Capital applications and the 2022 Accelerated Cost of Capital Applications.
- **Testimony on Amergen Distribution Time of Use Rate, Citizens Utility Board and Environmental Defense Fund (2025).** Evaluated proposed TOU rate and developed an alternative rate structure that included generation TOU rates.
- **Testimony on Commonwealth Edison Time of Use Rates, Citizens Utility Board and Environmental Defense Fund (2024-2025).** Evaluated proposed TOU rate and developed an alternative rate structure that included generation TOU rates.
- **Legislative Support on Compensation for Distributed Solar Customers, California Solar & Storage Association (2024-2025).** Prepared and presented analysis to the State Legislature of the value of solar to utility customers and reassessed the purported “cost shift” to show that other customers benefit from rooftop solar.
- **Testimony on Duke Energy Indiana Revenue Requirements and Residential Rate Design, Citizens Action Coalition of Indiana (2024).** Proposed an alternative cost of service approach that allocates capital and environmental compliance costs to energy use, opposed an increased customer charge and proposed elimination of declining block rates.
- **Testimony on Arizona Public Service Grid Access Charge, Arizona Attorney General (2024).** Addressed in rehearing issues with APS cost of service study for rooftop solar customers.
- **Testimony on Duke Energy Kentucky Net Metering Rates, Kentucky Solar Energy Society and Kentuckians For The Commonwealth (2024).** Testified on setting appropriate rates for residential customers with rooftop solar. Identified the full set of costs avoided by the utility as well as social

benefits to be included. Also presented a projection of jobs and economic value created by rooftop solar.

- **Review of *Benefits and Costs of Net Energy Metering in Washington*, Washington Solar Energy Industry Association (2023-present).** Participated in workshops and prepared detailed assessment of “cost-shift” analysis. Prepared analyses of potential rooftop solar capacity in the state and the relative economic benefits of installing distributed energy resources over utility-scale renewables.
- **Testimony on AB 205 Income Graduated Fixed Charge, California Energy Storage Association (2023).** Testified on the likely adverse consequences and the lack of supporting empirical evidence for imposing fixed charges ranging from \$50 to \$75 per month on average proposed by California’s investor owned utilities.
- **Author and co-author, *The Future of Decentralized Electricity Distribution Networks* (2022-2023).** Wrote “Leveraging the rise of the prosumer to promote electrification,” and co-authored (with Fereidoon Sioshansi) “Productive net metering reform: Where do the foundations of regulation, technological change, and good economics meet?”
- **Testimony on SDG&E 2024 General Rate Case, Small Business Utility Advocates. (2023).** Testified on using microgrids as a cost-effective alternative to undergrounding distribution lines.
- **Testimony on Sempra Utilities 2024 General Rate Case, Environmental Defense Fund. (2022-2023).** Testified on factors likely to decrease natural gas demand, thus reducing the need for requested infrastructure investment, and on changing the depreciation recovering mechanism to avoid stranded costs for future customers.
- **Net Energy Metering 3.0 Rulemaking Testimony, Agricultural Energy Consumers Association and California Farm Bureau (2021-2023).** Identified distinguishing aspects of aggregated NEM (NEMA) tariff that differ from residential NEM usage, and estimated the net value to utility customers.
- **Regulatory Analysis and Support, Sonoma Clean Power (2016-present).** Testified at the CPUC (CPUC) in Pacific Gas and Electric’s (PG&E) rate proceedings on the power charge indifference adjustment (PCIA) “exit” fee and other issues. Advising on CCA-related regulatory matters.
- **Agricultural Rate Setting Testimony, Agricultural Energy Consumers Association (1992-present).** Testified about agricultural economic issues related to energy use, linkage to California water management policy, and utility rates in numerous proceedings at the California Public Utilities Commission (CPUC), California Energy Commission, and California State Legislature.
- **Decarbonization Incentive Rate Proposal, Local Government Sustainable Energy Coalition (2022-present.)** Developed proposal for incentivizing building and transportation electrification by charging those uses only the marginal costs of service.
- **Pacific Gas & Electric 2023 General Rate Case Testimony, California Farm Bureau (2022).** Analyzed the comparative cost of using rural community and customer microgrids instead of undergrounding 10,000 miles of distribution lines to mitigate wildfire risk.
- **Net Energy Metering Rate Setting for Kentucky Power, Kentucky Solar Energy Industry Association (2021).** Testified before the Kentucky Public Service Commission on the appropriate principles for setting net energy metering rates.
- **Cincinnati Solar Project Techno-Economic Analysis, Placer County (2021).** Managed and directed the team preparing a financial analysis of the County’s proposed 3 megawatt solar generation project to assess the benefits of participating in the RES-BCT utility tariff available to local governments.
- **Regulatory Analysis and Support, Joint Community Choice Aggregators (2018-2021).** Testified at the CPUC (CPUC) in Pacific Gas and Electric’s (PG&E) rate proceedings on the power charge indifference

adjustment (PCIA) “exit” fee and other issues. Provides regulatory support. The Joint CCAs include Sonoma Clean Power, East Bay Community Energy, Peninsula Clean Energy, Pioneer Community Energy, Monterey Bay Community Power, Silicon Valley Clean Energy, and Marin Clean Energy.

- **Master-Meter Rate Setting Testimony and Regulatory Support, Western Manufactured Housing Communities Association (1998-2019).** Testified in Pacific Gas and Electric Co., Southern California Edison Co., Southern California Gas Co. and San Diego Gas and Electric Co. rate proceedings on establishing “master-meter/submeter credits” provided to private mobile home park utility systems.
- **Testimony on Southern California Edison 2018 General Rate Case, Small Business Utility Advocates. (2018-2019).** Testified on proposed distribution system spending plan in SCE’s GRC application.
- **Net Energy Metering Rate Setting for Kentucky Power, Kentucky Solar Energy Industry Association (2021).** Testified before the Kentucky Public Service Commission on the appropriate principles for setting net energy metering rates.
- **Regulatory Analysis and Support, California Community Choice Aggregators (2017-2019).** Testified at the CPUC (CPUC) in CPUC rulemakings on the power charge indifference adjustment (PCIA) “exit” fee and resource adequacy requirements.
- **Regulatory Analysis and Support, CalChoice (2017-2019).** Testified at the CPUC (CPUC) in Southern California Edison’s (SCE) rate proceedings on the power charge indifference adjustment (PCIA) “exit” fee and other issues.
- **Testimony on Protecting Solar Project Investment by Customers, County of Santa Clara (2017-2019).** Testified at the CPUC (CPUC) in Pacific Gas and Electric’s (PG&E) rate proceedings on the RES-BCT tariff provided to public agencies using renewable generation to supply their own accounts. The testimony addressed the appropriate rate structures for these projects in the context of state policy.
- **Electricity Research & Development Strategic Plan and Roadmap for Sacramento Municipal Utility District (2015-2016).** Reviewed SMUD’s ERD Strategic Plan to reflect the changing electric utility environment.
- **Aggregating Agricultural Accounts to Facilitate Load Management, Agricultural Energy Consumers Association (2012-2017).** Analyzed load and billing data from pilot programs to assess the potential load reductions in the PG&E and SCE service area if agricultural customers were given the on-line tools and the rate incentives to manage all of their individual loads as aggregated sets of loads.
- **Davis Community Choice Advisory Committee, City of Davis (2014).** Served on City-appointed committee to assess options for creating a community choice aggregation utility for the City or Yolo County.
- **Community Solar Gardens Testimony, Sierra Club (2014).** Testified in Pacific Gas and Electric and Southern California Edison Green Tariff applications on changes needed to encourage the development of neighborhood and community-scale renewable distributed generation by allowing direct contracting and removing unnecessary transaction costs.
- **Time of Use Rates in California Residential Rates Rulemaking, Environmental Defense Fund (2013-2014).** Modeled how increased penetration of TOU rates in the residential sector for all three investor-owned utilities would reduce peak and energy demand, reduce residential bills, and reduce utility costs.
- **Southern California Edison v. State of Nevada Department of Taxation, Nevada Attorney General’s Office (2013-2014).** Testified on whether the sales tax imposed on coal delivered to SCE’s Mohave Generating Station created a competitive disadvantage for SCE in the Western power market during the 1998-2000 period.

- **Alternative Generation Technology Assessment, California Energy Commission (2001-2014).** Developed and maintained the Cost of Generation Model, spreadsheet-based tool used by the CEC to produce generation cost estimates for the Integrated Energy Policy Report (IEPR).
- **Time of Use Rates in Consolidated Edison Rate Case, Environmental Defense Fund (2013).** Modeled how increased penetration of TOU rates in the residential sector for Consolidated Edison serving the New York City metropolitan area would reduce peak and energy demand, reduce residential bills, and reduce utility costs.
- **Analytic Support for Long Term Procurement Plan OIR, CPUC Energy Division (2011-2012).** Reviewed California Independent System Operator (CAISO) and three utilities' resource acquisition plans out to 2020.
- **Reliability and Environmental Regulatory Tradeoffs in the LA Basin, California Energy Commission (2009).** Developed analytic tool in Analytica to assess local capacity requirements (LCR) in the CAISO and LADWP control areas for the 2009-2015 period, and how air and water quality regulations impact the ability to meet the LCR.
- **Analytic Support for Klamath Project FERC Relicensing Case, California Energy Commission (2005-2007).** Prepared economic analysis comparing potential costs and benefits of proposed relicensing conditions and decommissioning scenarios for a consortium of government agencies.
- **US v. Reliant Resources CR04-125, US Attorney (2005-2007).** Testified in a wire fraud case as to the air quality regulatory constraints that Reliant may have faced when scheduling and operating its power generation facilities June 20 to June 23, 2000.
- **Agricultural Engine Conversion Program, Agricultural Energy Consumers Association (2005).** Testified before the CPUC on program to convert agricultural diesel engines to electricity. The adopted program led to the conversion of 2,000 pumps in the San Joaquin Valley. (A.04-11-007 and A.04-11-008)
- **Statewide Pricing Pilot, Track B Analysis, CPUC (2003-2005).** Developed experimental program to examine whether providing educational "treatments" communicated through a community-based organization in an environmentally-impacted neighborhood enhanced responses to critical peak pricing among residential energy users.
- **Environmental Performance Report Hydropower Relicensing Cost Evaluation, California Energy Commission (2003).** Developed estimates of lost value and incurred costs for California hydropower facilities subject to relicensing.
- **California Electricity Anti-trust Actions, California Office of the Attorney General (2002-2004).** Consulted on developing anti-trust cases and actions against merchant power generators as a result of the California 2000-2001 energy crisis.
- **FERC California Refund Case Testimony, California Electricity Oversight Board (2001-2003).** Testified before the Federal Energy Regulatory Commission on electricity price refund issues related to air emission and environmental permit costs, and effects on power plant operations from environmental regulations.
- **PG&E Hydro Divestiture EIR, CPUC (2000).** Evaluated the environmental impacts from divesting hydropower facilities and related lands by Pacific Gas and Electric Company
- **Thermal Power Plant Divestitures Environmental Assessments, CPUC (1997-1998).** Evaluated the environmental impacts of the generating plant divestiture by Pacific Gas and Electric, Southern California Edison, and San Diego Gas and Electric Companies.

- **Gas Pipeline Need Assessment, South Coast Air Quality Management District (1989).** Prepared analysis and testimony presented to the CPUC on the need for additional interstate natural gas pipeline capacity to implement the Liquid and Solid Fuel Phase-out Policy for the South Coast Air Quality Management District.
- **Rancho Seco NGS Evaluation, Sacramento Municipal Utility District (1988).** Independently reviewed resource planning alternatives and recommended action on Rancho Seco NGS operations, for SMUD QUEST Team.
- **QF Avoided Cost Rates, Oklahoma Corporation Commission Staff (1989).** Testified on Oklahoma Gas and Electric avoided-cost methodology and made projections for payments to cogeneration facilities using the PROMOD production-cost model. Testified for the OCC Staff, in Cause No. PUD 000600 and Cause No. PUD 000345.
- **QF Development Forecast, Sacramento Municipal Utility District (1988).** Identified and assessed the viability of qualifying facilities (QF) projects in PG&E's service territory — particularly in the San Joaquin Valley — through database searches and telephone survey.
- **Plant Closure Testimony, Cook County State's Attorney (1988).** Testified on savings from closure of coal-fired plants, based on Elfin production-cost model runs, before the Illinois Commerce Commission.
- **QF Siting Certification Cases, IBM (1985), Arco Refining (1986), Mobil Oil (1986), Sun Oil/Mission Energy (1987), Signal Energy (1988), Luz Engineering (1988).** Prepared testimony on need-for-power in Southern California Edison, Pacific Gas and Electric and San Diego Gas and Electric, for qualifying facility project siting applicants at the CEC.

Professional Affiliations

- American Agricultural Economics Association
- Association of Environmental and Resource Economists
- American Economics Association

Civic Activities

- City of Davis 2020 Environmental Recognition Award
- Past member, City of Davis Natural Resources Commission
- Past member, City of Davis Utilities Rates Advisory Commission
- Past member, City of Davis Community Choice Energy Advisory Committee
- Past Member, City of Davis Citizens Electricity Restructuring Task Force
- Past Member, Yolo County Housing Commission