

## Academic Background

M.P.P., Institute of Public Policy Studies, University of Michigan, 1985

B.S., Conservation of Natural Resources, University of California, Berkeley, 1982

## Professional Experience

M.Cubed, Partner, 1993-present

San Francisco Community Power, Director, 2001-2014

San Francisco State University, Adjunct Lecturer, 1997-2010

Office of Technical Assistance, U.S. Treasury Department, Budget Advisor, 1997-1998; 2006-2008

Foster Associates/Spectrum Economics/QED Research, Senior Economist, 1988-1992

U.S. Congress, Committee Staff, 1987

U.S. Office of Management and Budget, 1985-1986

Mr. Moss specializes in environmental and energy resource economics and public policy analysis. He's analyzed many different aspects of energy utility operations, and has developed and implemented a range of distributed energy resource programs (DER) in the context of research and development pilots. He worked with the California Energy Commission to examine the distribution-level impacts of DER measures, and launched the first demand-response aggregation pool in California oriented towards small enterprises. He led efforts on behalf of Agahozo Shalom Youth Village to develop an 8.5 megawatt solar facility, one of the largest in East Africa, and is engaged in distributed generation efforts in Rwanda. He's been actively engaged in a number of California regulatory proceedings that focus on incenting greater amounts of renewables onto the grid, including related to residential rates, distribution resource planning, and integrated demand side management. He's engaged in projects in India, Niger, Rwanda, and Senegal.

## Selected Projects

***Skills: Distributed Energy Resources Regulatory Analysis, Marketing, Valuation and Siting, including Renewables and Demand Response; Rates Analysis, Tariff Development and Revenue Allocation; Technology Cost Assessment; Regional Economic Analysis; Agricultural Water Use Economics.***

- **Energy Regulatory Proceedings, Environmental Defense Fund (2012-present).** Testified on how to catalyze greater DER penetration, particularly load-modifying resources, with an emphasis on geographic-specific approaches. Examined methods to create distribution level DER markets.
- **Time Variant Rates, New York and California, Environmental Defense Fund (2013-2015).** Examined proposed time variant rates as part of regulatory processes in California and New York. Modeled how increased penetration of time of use rates in the residential sector for Consolidated Edison serving the New York City metropolitan area would reduce peak and energy demand, lower residential bills, and reduce utility costs.
- **Distributed Generation, Ignite (2015).** Helped identify financing for "solar suitcase" enterprise in Rwanda.

- **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, California Energy Commission, and California State Legislature.
- **Aggregating Agricultural Accounts to Facilitate Load Management, Agricultural Energy Consumers Association (2012-present).** Analyzed load and billing data from nine farms with 368 accounts to assess the potential load reductions in the PG&E service area if agricultural customers were given the online tools and the rate incentives to manage all of their individual loads as aggregated sets of loads. Continued with similar analysis in SCE's service territory, also based on nine farms, with an emphasis on examining the implications of greater electricity demand triggered by water scarcity.
- **Native American Energy and Water Issues, Round Valley, Ohkay Owinga and Ute Mountain Tribes (2014-present).** Examined economic viability of a small hydro-electric facility. Investigated viable energy projects, including renewables, as part of a water rights claim process.
- **Solar Facility, Agahozo-Shalom-Youth Village (2012-2014).** Helped develop an 8.5 megawatt solar array in Rwanda, the largest photovoltaic facility in East Africa.
- **Economic Implications of Water Scarcity, California Water Foundation (2012).** Examined the economic and fiscal implications of water scarcity on a number of state regions and industry sectors.
- **Residential Customer Segmentation, California Institute for Energy and the Environment (2010).** Examined best practices related to market segmentation to vend energy efficiency programs.
- **Equity Issues Associated with Greenhouse Gas Cap and Trade Programs, Environmental Defense Fund, (2008-2010).** Analyzed potential means to engage low income communities and small businesses in greenhouse gas reduction activities, including an examination of financing approaches.
- **Demand Response Regulatory Proceedings, San Francisco Community Power (2004-2008).** Examined issues associated with the structure of and cost related to various DR programs. Testified in proceedings on establishing DR programs catering to low-income communities and small businesses.
- **Renewable Energy Siting, San Francisco Community Power (2001-2005).** Helped households and small businesses site renewable facilities, taking advantage of local, state, and federal incentives. Assisted in the development of a 36 kilowatt solar array at an animal boarding facility, for a time the largest renewable project in San Francisco.
- **Distributed Energy Resources Distribution Feeder Research, California Energy Commission (2005-2008).** Developed and implemented a series of DER measures along two feeder lines in San Francisco, and examined the resulting implications to customers, the utility system, and the environment.
- **Economic Impacts of Assembly Bill 32, Environmental Defense Fund (2008).** Estimated the economic benefits of California's pioneering cap and trade legislation, including potential impacts on technological innovation.
- **Power Plant Closures, San Francisco Community Power, (2001-2008).** Identified, developed, and implemented a series of strategies to close two power plants in San Francisco, including engaging community members and merchants in deploying conservation, efficiency, and load-shifting measures, and analyzing transmission alternatives.
- **Agricultural Engine Conversion Program, Agricultural Energy Consumers Association (2005).** Testified before the CPUC on program to convert agricultural diesel engines to electricity.
- **Statewide Pricing Pilot, Track B Analysis, California Public Utilities Commission (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.

- **Economic and Fiscal Implications of Affordable Housing, Silicon Valley Citizens for Affordable Housing (2004).** Examined the socio-economic benefits associated with access to affordable housing in Silicon Valley.
- **National Economic Impacts of the Child Care Sector, National Child Care Association (2002).** Estimated the economic benefits, including associated with increased productivity, of child care services.
- **Agricultural Electricity Rates Report, California Energy Commission (2001).** Studied how electricity rates in California impact agricultural energy costs given restructuring. This included a comparison with rates in neighboring states. Developed a broad range of policy proposals to improve agricultural energy management and to lower energy costs.

## Professional Affiliations

Chair, See Far Enterprises (2014-present)  
Board member, Agahozo Shalom Youth Village (2010-present)  
Board member, Ignite (2014-present)  
Member, Equal Opportunity Council of San Francisco (2010-2011)  
Candidate, San Francisco Board of Supervisors, District 10 (2010)  
Member, Bay Area Air Quality Management District Community Air Risk Evaluation (2008-2010)  
Member, California Energy Commission Public Interest Energy Research Distribution Program Committee (2008-2009)  
Supervisor's Appointee, Power Plant Task Force (2002-2011)  
Governor's Appointee, California Inspection and Maintenance Review Committee (1997-2001)

## Awards

Fulbright Indo-American Environmental Leadership Fellow (2004)  
Salzberg Seminar Fellow (2001)  
Kellogg National Leadership Fellow (2000)  
Presidential Management Intern, (1985-1987)  
Lyndon B. Johnson Congressional Scholar (1981)