

**PROFESSIONAL BACKGROUND OF
MICHAEL T. WANDER**

EDUCATION

Master of Business Administration, concentration in Management Science, Virginia Tech

Bachelor of Science, Mechanical Engineering,, Virginia Tech

EMPLOYMENT

Vice President, Potomac Economics, 2001 – present

Manage software and information systems development in support of Potomac Economics' Market Advisor role for the New York ISO and ISO New England. Responsible for managing and participating in the development of software, data and analytical tools to assisting in monitoring the markets to identify and remedy market design flaws and market power concerns. Support and maintain reference price software developed for the NYISO.

Manage software and information systems for Potomac Economics' role as Independent Market Monitor for the Midwest ISO, and the Southwest Power Pool. Responsible for managing and participating in the development of data and software necessary for implementing the market monitoring program in the Midwest.

Senior Energy Consultant, Capital Economics, June 1999 to 2001

Provided engineering, financial, and economic support in analyzing and advising clients on competitive issues related to electric and natural gas deregulation, mergers, and other antitrust issues.

Operations Research Analyst, Office of Economic Policy, Federal Energy Regulatory Commission, 1992 to 1999

Provided analytic support to the Commission in the areas of electricity and natural gas policy and litigation.

Developed computer models and databases for potential use in market monitoring, market power, and market performance analyses.

Analyzed issues related to OASIS postings and transmission studies related to ATC/TTC postings and standards of conduct.

Prepared the Environmental Impact Statement (EIS) supporting Order 888 (Open Access Rule).

Filed expert testimony regarding the need for a major utility to provide an electronic bulletin board to ensure customers comparable access to transmission information.

Developed and analyzed the Commission's first database on the secondary market for interstate natural gas pipeline capacity mandated by Order 636. Responsible for analysis supporting the Commission's orders liberalizing bidding procedures.

Energy Industry Specialist, Modeling and Analysis Division, Science Applications International Corporation (SAIC), McLean, Virginia, 1988 to 1992.

Provided on-site programming, analysis, and modeling support to the Office of Integrated Analysis and Forecasting, Energy Information Administration (EIA) in the development of large-scale coal and electricity market and production cost models.

Provided on-site engineering and programming support for EIA's analysis of the Clean Air Act Amendments of 1990 for the House Energy Committee of the U. S. Congress. Support of EIA's analysis included the development of detailed estimations of SO₂, NO_x, and CO₂ emissions from fossil-fired steam generating units operating under Federal, State, and Local restrictions, as well as an examination of existing coal-fired capacity in terms of existing pollution abatement equipment, retrofit capability, and quality of coal burned. Worked with EIA staff to develop constraints for the large-scale linear programming model used to evaluate the costs of the legislation.

Energy Specialist, Maxima Corporation, Rockville MD. 1987 to 1988.

Developed and maintained the integrating components of the PC-based production cost and price forecasting model used in support of the *Annual Energy Outlook* for the EIA.

Reliability Engineer, Essex Corporation, Alexandria, VA. 1986 to 1987.

Performed reliability, maintainability, and availability (RMA) analysis on mechanical systems in surface and submarine designs.

Staff Engineer, Resource Dynamics Corporation, McLean, VA. 1984 to 1986.

Provided engineering, economic, and computer analyses relating to energy policy issues for the EIA, the World Bank, and the Electric Power Research Institute.

PUBLICATIONS AND TESTIMONY

New York Independent System Operator. “Annual Report on Annual Report reviewing the performance of the New York electric markets during 2001, including recommended improvements to the operation and design of the markets.

Contributed to numerous FERC Office of Economic Policy Papers, and Commission Orders and Rulemakings, included Order 888, the RTO Notice of Proposed Rulemaking, the Merger Policy Statement, and Order 636.

“Potential for the Use of a Decision Support System in the Evaluation of Clean Air Act Compliance Strategies,” Working Paper, Virginia Tech, MSCI 5474, April, 1992.

Coal Supply and Transportation Model (CSTM) Model Documentation, U.S. DOE, DOE/EIA-M048, November 1991.

PC-AEO Forecasting Model for the Annual Energy Outlook 1990 - Model Documentation, Section XI, U.S. DOE, DOE/EIA-MO36, March 1990.

Submitted direct testimony on Electronic Bulletin Board requirements to provide comparable access to transmission access in Wisconsin Power and Light Company (WP&L) Docket No. ER94-475-000.