

Marc H. Vatter

EDUCATION

Ph.D. in Economics, Brown University, Providence, RI, 2007

M.A. in Economics, Brown University, Providence, RI, 1999

B.A. in Economics with departmental honors, University of Oregon, Eugene, OR, 1986

CONSULTING EXPERIENCE

Consulting Economist, Nashua, NH and Portland, OR, January 2010 – present

- Jointly sponsored testimony before the Rhode Island PUC on the employment impacts of Clear River Energy Center (CREC) for the Rhode Island Building and Construction Trades Council; individually sponsored rebuttal testimony on the need for CREC
- Affiliated with Elevation Direct, Las Vegas, NV, July 2015 – present
 - Provided forecasts of loads, fuel prices, capacity prices, and prices of clean energy certificates in evaluations of pumped storage, combined-cycle gas, internal combustion, and wind and solar facilities in Mexico; co-authored reports to clients
 - Used AURORA® (a capacity expansion and production cost model; “Aurora”) to evaluate potential purchase of Termoelectrica de Mexicali, a combined cycle natural gas-fired generator
 - Used Aurora to forecast wholesale electric prices in Michigan and sponsored testimony on behalf of Michigan Public Service Commission staff in a case regarding a purchased power agreement for the output of the Palisades nuclear plant
 - Recent work in newly restructured wholesale power market in Mexico
 - Forecasted loads, fuel prices, capacity prices, and prices for clean energy certificates in Mexico for Oceanus and Rengen; co-authored market studies done using Plexos
 - Co-authored a report on the economics of introducing liquefied natural gas to southern Baja California
 - Used Aurora to model expansion and operation of power grid for independent generators
 - Trained employees of Federal Electricity Commission in load forecasting
 - Estimated Herfindahl-Hirschman indices of market concentration
 - Forecasted hourly loads and prices for power
 - Developed methodology and forecasted prices for clean energy certificates,
 - Developed methodology and forecasted prices for ancillary services
 - Adapted methodology and forecasted costs of congestion and losses in a “zonal” model
- Affiliated with Economic Insight, Sisters, OR, January 2010 – March 2013
 - Used Aurora to model electric resource planning in the Pacific Northwest
 - Used Aurora to estimate trade benefits of Entergy and South Mississippi Electric Power Association joining regional transmission organizations, sponsored testimony before the Mississippi Public Service Commission (MPSC)
 - Assessed application to install pollution controls on coal plant; jointly testified before MPSC
 - Estimated dollars of spending per employee by generating technology
 - Analyzed issues regarding pricing and royalties in geothermal and natural gas leases in California and Texas;
 - Analyzed pricing and alleged use of market power in California power crisis
 - Estimated lost earnings in a wrongful death lawsuit and testified to report

Editor of scholarly research written by non-native speakers of English (intermittent)

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CONSULTING EXPERIENCE (CONTINUED)

Assistant consulting economist to personal injury and wrongful death litigants, Allan M. Feldman, Providence, RI, 2002-2003

- Worklife evaluation for litigation related to personal injury or wrongful death

Research Associate, Synapse Energy Economics, Cambridge, MA, July 1998 - February 1999

- Evaluated forecasts of electricity prices submitted in “stranded-cost” claim by four Maryland utilities

Associate Economist, Economic Insight, Portland, OR, May 1988 - September 1988

- Surveyed forecasts of electricity prices and estimates of demand elasticities related to litigation over Washington Public Power Supply System bond defaults

Technical Assistant, ECO Northwest, Eugene, OR, July 1986 - August 1987

- Worklife evaluation for litigation related to personal injury and wrongful death; wrote company training manual on the subject

GOVERNMENTAL EXPERIENCE

Industry Economist, Bonneville Power Administration, Portland, OR, May 1994 - June 1997

- Authored and testified to marginal cost analysis in 1996 rate case before FERC
 - Helped prepare inputs to and interpreted and applied results of Power Marketing Decision Analysis Model (PMDAM) to rate design and to planning and evaluation of resources
 - Prepared and conducted public meetings on analysis and its implications for rate design
 - Fielded and incorporated comments from a variety of participants
 - Authored rate case study, documentation, and testimony

Public Utilities Specialist, Bonneville Power Administration, Portland, OR, September 1988 - May 1994

- Research on marginal costs of generating and marketing hydropower on the West Coast
- Prepared workshop briefing material, rate case studies, and documentation supporting Marginal Cost Analysis and other rate-related issues as assigned
- Evaluated contracts for disposition of wholesale power

TEACHING EXPERIENCE

Visiting Assistant Professor of Economics, Universidad del Pacifico, Jesús María, Lima, Peru, September 2014. Average student rating: 85%.

- Taught topical graduate course in energy economics

Visiting Assistant Professor of Economics, Pacific University, Forest Grove, OR, August 2008 - May 2009. Average student rating: 63%.

- Taught principles of microeconomics, environmental economics, and international trade

Lecturer in Economics, Eastern Connecticut State University, Willimantic, CT, August 2005 - May 2006. Average student rating: 70%.

- Taught principles of microeconomics

Teaching Assistant to Harl Ryder and others, Brown University, Providence, RI, September 1999 - May 2002. Average student rating: 59%.

- Teaching Assistant for Principles of Micro- and Macroeconomics

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TEACHING EXPERIENCE (CONTINUED)

Teacher, English as a Second Language, Changsha Normal University of Water Resources and Electric Power, Changsha, Hunan, PRC, August 1987 - January 1988; Brown University, Providence, RI, Summer 2001

RESEARCH

Vatter, M., & Suurkask, D. (2018). The impact of trade with the United States on electric loads in Mexico. *Heliyon*, 4:8. <https://doi.org/10.1016/j.heliyon.2018.e00717>

Vatter, M. (2017). OPEC's kinked demand curve. *Energy Economics*, 63(March 2017), pp. 272-287. <https://doi.org/10.1016/j.eneco.2017.02.010>

Vatter, M. (2018). Does oil market volatility earn OPEC a risk premium? (United States Association for Energy Economics Working Paper No. 18-328). <http://ssrn.com/abstract=3100569>

Vatter, M., & Suurkask, D. (2017). The impact of international trade on electric loads in Mexico. *International Association for Energy Economics Energy Forum*, 2nd quarter 2017. <https://www.iaee.org/en/publications/newsletterdl.aspx?id=406>. (industry version)

Vatter, M., & Suurkask, D. (2017). The impact of international trade on electric loads in Mexico (United States Association for Energy Economics Working Paper No. 17-301). <http://ssrn.com/abstract=2928817>. (scholarly version) under review

Vatter, M. (2017). Stockpiling to contain OPEC (United States Association for Energy Economics Working Paper No. 17-136). <http://ssrn.com/abstract=912311>. Presented at 2008 USAEE conference; see <http://www.usaee.org/usaee2008/submissions/Presentations/Marc%20Vatter.pdf>

Vatter, M. (2017). Social discounting with diminishing returns on investment. <http://ssrn.com/abstract=1078502>

Vatter, M., & Barney, F. (2016). Macroeconomic risk and residential rate design (United States Association for Energy Economics Working Paper No. 15-208). <http://ssrn.com/abstract=2596258>. under review

Vatter, M. (2008). The cause and effect of exclusionary zoning in central cities. <http://ssrn.com/abstract=636962>. update under review

Vatter, M. (2008). OPEC's demand curve. <http://ssrn.com/abstract=1127642>. Reviewed at <http://knowledgeproblem.com/2008/05/14/>.

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RESEARCH (CONTINUED)

Research Assistant to Allan M. Feldman, valuation of individual earning capacity, Brown University, 2000

Research Assistant to J. Vernon Henderson, industrial location in Indonesia, Brown University, Summer 1999

AWARDS

- Twelve monetary awards for job performance at Bonneville Power Administration
- Award for best undergraduate research project in economics at University of Oregon; examined deregulation of U.S. airline industry

OTHER ACTIVITIES

Monitored the House Science, Technology, and Energy Committee in Concord, NH for the Northeast Energy and Commerce Association

Peer Reviewer for *Land Economics*: effects of endowments of petroleum resources on corruption, 2008; hedging in coal contracts under the acid rain program, 2010-11; suburban agriculture as an amenity, 2012; prorationing versus unitization in the U.S. petroleum industry in the 20th century

Founded and managed “Micro Lunch” seminar, Brown University, 2001-2002

Role of expert witness in Lewis & Clark Law School’s mock personal-injury litigation, 1996

Peer Advisor, Department of Economics, University of Oregon, 1984-1986

MEMBERSHIPS

American Economic Association; Association for Christian Economists; International and United States Associations for Energy Economics; Eastern Economic Association; Northeast Energy and Commerce Association; National Association of Forensic Economics