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# Matthew Wittenstein

Associate

Synapse Energy Economics

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## PROFESSIONAL EXPERIENCE

**Synapse Energy Economics Inc.**, Cambridge, MA. Associate, July 2010 – present.

Performs consulting, conducts research, and assists in writing testimony and reports on a wide range of issues relating to electric utilities, energy efficiency, electricity transmission and generation, consumer advocacy, environmental policy and compliance, and air emissions. Recent work has focused on estimating the cost of emissions control retrofits in coal plants, investigating revenue decoupling strategies for encouraging energy efficiency in vertically integrated utilities, and evaluating macroeconomic forecasts for use in a large scale transmission system modeling exercise.

**London Economics International**, Boston, MA. Consultant, February 2008- June 2010.

Modeled the economics and environmental impacts of various electricity transmission and generation projects. Provided real options analysis of peak power generation and transmission access strategies. Performed various market power analyses of utility mergers and buyouts.

Specific project work included:

- Analyzing potential ancillary services price hedging strategies using Monte Carlo simulations.
- Co-authoring a report on the macroeconomic impact of hydro-electric plant construction in Rwanda.
- Co-authoring a report estimating appropriate retail margin for an Indian utility company.
- Advising a Canadian electricity utility on moving towards a formula based rate-making scheme.

**Financial Services Volunteer Corps**, New York, NY. Associate, May 2007- December 2007.

Authored report on potential crisis areas within banking industry of Balkan states. Arranged meetings with SIPC and DTCC for delegation from the Nigerian finance ministry. Researched issues affecting banking industry in India, Bangladesh and Russian. Co-wrote project proposal discussing bond market development in East Africa.

**Office of Management and Budget**, Washington, D.C. Intern, Summer 2006.

Co-developed business case cost-benefit analysis model for government-wide project.

Evaluated proposed budgetary tools to be used in all phases of Federal Budgeting process.

**Rubenstein Technology Group**, Brooklyn, NY. Project Manager, October 2002-2005.

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Managed team of six people at an online business solutions consulting firm. Primary interface between clients and development team. Clients included a Wall Street brokerage firm and a developer of a hybrid auction/dealer trading system.

**Merrill Lynch, Global Technology Solutions**, New York, NY. Senior Specialist, July 1999-May 2002.

Hired as part of the Technology Leadership Program. Project manager in the data and voice network group. Training included accounting, securities industry overview, and bond math.

## **EDUCATION**

**Columbia University, School of International and Public Affairs**, Master of International Affairs, New York, NY, 2007.

Concentration in international economic policy. Principal courses included Global Economic Policy, Quant Methods of Energy Policy Analysis, International Finance & Monetary Policy, Future of Global Financial Institutions, International Capital Markets, Economic Reforms of Transition Nations , Post-Soviet States and Markets, and Accounting.

**Binghamton University, Watson School of Engineering**, Bachelor of Science in Computer Science, Minor in Physics, May 1999.

## **PUBLICATIONS AND CONFERENCES**

Jeremy Fisher, Rachel Wilson, Nicole Hughes, Matthew Wittenstein, Bruce Biewald. *Benefits of Beyond BAU: Human, Social, and Environmental Damages Avoided through the Retirement of the U.S. Coal Fleet*. Prepared for Civil Society Institute, January 2011.

Julia Frayer, Neeman, Z. and Wittenstein, M., *Applications of Information Policy Principles from Auction Theory in the Deregulated Electricity Market*, presented at the 32nd IAEE International Conference, San Francisco, CA, June 2009.

## **OTHER INFORMATION**

**Industry Accreditation:** Passed Series 7 and Series 63.

**Professional Organizations:** United States Association for Energy Economics (USAEE), Treasurer, New England chapter. International Association for Energy Economics (IAEE), member.

**Computer Software:** Microsoft Office, STATA, @Risk, PrecisionTree, Solver, Bloomberg.

**Languages:** Russian (beginner).

Resume dated May 2011.