

## **Bruce Edward Biewald, Chief Executive Officer**

---

Synapse Energy Economics | 485 Massachusetts Avenue, Suite 2 | Cambridge, MA 02139 | 617-453-7022  
bbiewald@synapse-energy.com

### **SUMMARY**

- Expert testimony on energy, economic, and environmental issues in more than 100 utility regulatory proceedings in 26 states and two Canadian provinces, in cases before State and Federal Courts, and in proceedings of the Federal Energy Regulatory Committee and the Nuclear Regulatory Commission's Atomic Safety and Licensing Board.
- Co-author of more than 100 reports, including studies for the Electric Power Research Institute, the US Department of Energy, the US Environmental Protection Agency, the Office of Technology Assessment, the New England Governors' Conference, the National Association of Regulatory Utility Commissioners, and the United Nations Framework Convention on Climate Change.
- Papers published in the Electricity Journal, the Energy Journal, Energy Policy, Public Utilities Fortnightly, and numerous conference proceedings.
- Invited to speak by the American Society of Heating, Refrigerating, and Air-Conditioning Engineers; American Society of Mechanical Engineers; Energy Foundation; International Atomic Energy Agency; the Latin American Energy Association (OLADE); National Association of Regulatory Utility Commissioners; National Association of State Utility Consumer Advocates; National Consumer Law Center; the Swedish Environmental Protection Agency (SNV); the US Environmental Protection Agency; the European Federation of Clean Air and Environmental Protection Associations; and others.

### **PROFESSIONAL EXPERIENCE**

**Synapse Energy Economics, Inc.**, Cambridge, MA. *Founder and Chief Executive Officer*, 1996 – present.

Advise clients on issues of energy economics, environmental impacts, and electric industry regulation. Provide litigation support and expert testimony, author reports, and lead a professional staff of 27 engineers, scientists, policy experts, and economists, conducting many dozens of consulting assignments each year. Areas of expertise include: electric power system planning, air emissions, climate change policy, market power, mergers and acquisitions, generation asset valuation and divestiture, nuclear and fossil power plant costs and performance, renewable resources, power supply contracts and performance standards, green marketing of electricity, nuclear plant decommissioning and radioactive waste issues, environmental externalities valuation, environmental compliance planning, energy conservation and demand-side management, electric power system reliability, avoided costs, dispatch modeling, economic analysis of power plants and resource plans, portfolio management, risk analysis, and risk management.

---

**Tellus Institute**, Boston, MA. *Senior Scientist and Manager of the Electricity Program*, 1989 – 1996;  
*Research Associate and Associate Scientist*, 1980 – 1988.

Responsible for research and consulting on all aspects of electric system planning, regulation, and restructuring.

## **EDUCATION**

**Massachusetts Institute of Technology**, Cambridge, MA

Bachelor of Science in Architecture, Building Technology, and Energy Use in Buildings, 1981

**Harvard University Extension School**, Cambridge, MA

Graduate courses in micro and macroeconomics, 1989 – 1990

*Resume dated December 2013*