

---

# Kenji Takahashi

Associate

Synapse Energy Economics

22 Pearl Street, Cambridge, MA 02139

(617) 661-3248 ext. 238 • Fax: (617) 661-0599

[www.synapse-energy.com](http://www.synapse-energy.com)

[ktakahashi@synapse-energy.com](mailto:ktakahashi@synapse-energy.com)

## PROFESSIONAL EXPERIENCE

**Synapse Energy Economics Inc**, Cambridge, MA. Cambridge, MA. Associate, 2008 – present; Research Associate, 2004 - 2008.

Analyzes technologies, policies, and regulations associated with supply and demand side energy resources. Assesses potentials of electric and natural gas energy efficiency measures. Examines economic and environmental implications of clean energy policies and programs associated with energy efficiency, demand response, distributed generation, and renewable energy. Examines ratemaking issues such as standby rates for distributed generation and decoupling rate mechanisms for energy efficiency measures. Investigates electricity and natural gas market price trends and fluctuations. Prepares expert testimony and reports for regulatory proceedings.

**Center for Energy and Environmental Policy**, University of Delaware, Newark, DE. Research Associate, 2002- 2004.

Researched the market potential of distributed resources under different electric distribution rate designs (Report prepared for Conectiv Power Delivery Company). Investigated the potential of the Clean Development Mechanisms (CDM) in Asian developing countries and the Japanese government's policy for CDM. Contributed to a market penetration study for photovoltaic technologies in comparison with the predicted oil production from the oil reservoirs in the Arctic National Wildlife Refuge (Report prepared for Astropower, Inc.). Analyzed the installation of PV and generation-set options for the Assateague Beach Coastal Guard Station at the Assateague Island National Seashore (Maryland) (Report prepared for the U.S. National Park Service).

**Delaware Division of Public Advocate**, Wilmington, DE. Research Intern, 2003.

Researched and wrote reports on states' policies regarding (1) energy efficiency/load management programs in order to identify cost-effective programs for implementation in Delaware; (2) electric standard offer service/default service (rate designs) for those who do not choose alternative suppliers under the deregulation process; (3) electric universal service and system benefit charges for protecting consumers from risks associated with electricity restructuring; and (4) Contributions and Advances-in-Aid-of-Construction for water supply extensions.

---

**Resources for the Future**, Washington DC. Research Intern, 2002.

Investigated current and planned wind power capacity for the United States. Analyzed the EPA and EIA market models to estimate technical and economic potential of wind power in the United States. Researched the status of renewable energy supply in Japan's electricity sector (Prepared for the Economic and Social Research Institute, Cabinet Office, Government of Japan).

**Citizens' Alliance for Saving the Atmosphere and the Earth (CASA)**, Osaka, Japan.

Volunteer, 1999-2001. Worked as a newsletter writer, editor and event organizer. Wrote a report on the first experimental biomass energy facility in Japan and the photovoltaic system at Yagi Junior High School in Kyoto, Japan. Participated in a research project to investigate renewable energy potential and policies in Japan. Wrote a report on problems of nuclear power plants affecting communities in Fukui prefecture, Japan.

## **EDUCATION**

MA in Urban Affairs and Public Policy with a concentration in Energy and Environmental policy, Center for Energy and Environmental Policy, University of Delaware, Newark, DE, 2003. Master's thesis: *Policies to Support Distributed Resources under Different Electricity Restructuring Models*. Courses on energy economics, energy and environmental policy, electricity policy and planning, political economy of environment, solar electric technology, cost-benefit and decision making analyses, and geographic information system.

BA in Law with a concentration in Public Administration, Kansai University, Osaka, Japan, 2000.

## **AWARDS/SCHOLARSHIPS**

- Director's Citation, Department of Urban Affairs and Public Policy, University of Delaware, May 2003.
- NEC scholarship for an environmental education leader-training program funded by one of the leading Japanese computer companies, NEC, November 2000.

## **CONFERENCES**

- Presenter at the 2008 ACEEE Summer Study on Energy Efficiency in Buildings, August 21, 2008 in Pacific Grove, CA
- Tufts University Clean Distributed Energy Workshop, June 8, 2006 in Medford, MA
- The 2006 Northeast Energy Efficiency Summit, May 17 in Boston, MA
- The 2006 Distributed Generation & Interconnection Conference held by DTE Energy, April 26-28, 2006 in Detroit, MI
- Discussant at the World Bank Expert Workshop on CDM methodologies and Technical Issues Associated with Power Generation and Power Saving Activities, December 3, 2005 in Montréal, Canada

- 
- United Nations Climate Change Conference at its eleventh session / Twenty-third sessions of the Subsidiary Bodies and COP/MOP 1, November to 9 December 2005 in Montréal, Canada

## **PUBLICATIONS**

***No Need to Wait: Using Energy Efficiency and Offsets to Meet Early Electric Sector Greenhouse Gas Targets.*** Prepared for Environmental Defense, April 2009.

***The Sustainability and Costs of Increasing Efficiency Impacts: Evidence from Experience to Date.*** Proceedings and presentation of the 2008 ACEEE Summer Study on Energy Efficiency in Buildings, August 20, 2008.

***Cost and Benefits of Electric Utility Energy Efficiency in Massachusetts.*** Prepared for Northeast Energy Efficiency Council, August 2008.

***Advanced Metering Infrastructure- Implications for Residential Customers in New Jersey.*** Prepared for New Jersey Division of the Ratepayer Advocate, July 8, 2008.

***Increasing Demand Response in Maine.*** Prepared for Staff of the Maine Public Utilities Commission, January 4, 2008.

***LMP Electricity Markets: Market Operations, Market Power, and Value for Consumers.*** Prepared for American Public Power Association, February 5, 2007.

***A Comprehensive Process Evaluation of Early Experience under New York's Pilot Program for Integration of Distributed Generation in Utility System Planning.*** Prepared for the New York State Energy Research and Development Authority., forthcoming Fall 2006.

***Energy in the Northern Forest Region: A Situation Analysis.*** Prepared for Northern Forest Center, May 1, 2006.

***Ensuring Delaware's Energy Future: A Response to Executive Order Number 82.*** Report by the Delaware Cabinet Committee on Energy prepared with technical assistance from Synapse Energy Economics and others, March 8, 2006.

***The Proposed Broadwater LNG Import Terminal - An Analysis and Assessment of Alternatives.*** Prepared for Connecticut Fund for the Environment, March 2, 2006.

***The Glebe Mountain Wind Energy Project: Assessment of Project Benefits for Vermont and the New England Region.*** Report prepared on behalf of Glebe Mountain Wind Energy, LLC., February, 2006.

***The Deerfield Wind Project: Assessment of the Need for Power and the Economic and Environmental Attributes of the Project.*** Report prepared on behalf of Deerfield Wind, LLC., January, 2006.

---

***Study of Potential Mohave Alternative/Complementary Generation Resources.*** Pursuant to CPUC Decision 04-12-016, prepared for Southern California Edison, February 3, 2006.

***Rate Structures for Customers with Onsite Generation: Practice and Innovation.*** Prepared for National Renewable Energy Laboratory, December 1, 2005.

***Feasibility Study of Alternative Energy and Advanced Energy Efficiency Technologies for Low-Income Housing in Massachusetts.*** Prepared for The Low-Income Energy Affordability Network, Action for Boston Community Development, and Action Inc., August 2005.

***Electric Energy Efficiency and Renewable Energy in New England: An Assessment of Existing Policies and Prospects for the Future.*** Prepared for the Regulatory Assistance Project, May 2005.

***Policy Options to Support Distributed Resource Options.*** Prepared for Conectiv Power Delivery. Newark, DE: Center for Energy and Environmental Policy, January 2005.

***The Searsburg/Readsboro Wind Project: An Analysis of Project Economics and An Analysis of Need.*** Prepared for enXco Inc., October, 2004.

***Electricity, Renewables, and Climate Change: Searching for a Cost-Effective.*** Washington D.C.: Resources for the Future, May 2004.

***The Clean Development Mechanism and Energy Efficiency Upgrades in Developing Countries: The Case of the Residential Sector in Selected Asian Countries.*** Proceedings of the 3rd International Conference on Energy Efficiency in Domestic Appliances and Lighting. Turin, Italy, October 1-3, 2003.

Resume dated February 2009.