
Kenji Takahashi

Associate

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PROFESSIONAL EXPERIENCE

Synapse Energy Economics Inc, Cambridge, MA. Associate, 2004-present.

Analyze technologies, policies, and regulations associated with supply and demand side energy resources. Assess potentials of electric and natural gas energy efficiency measures. Examine economic and environmental implications of clean energy policies and programs associated with energy efficiency, demand response, distributed generation, and renewable energy. Examine ratemaking issues such as standby rates for distributed generation and decoupling rate mechanisms for energy efficiency measures. Investigate electricity and natural gas market price trends and fluctuations. Prepare 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

- Build Boston 2010 on Residential Design and Construction, November 17, 2010
- ACI New England Conference 2010, October 6, Sturbridge, MA
- The 2010 ACEEE Summer Study on Energy Efficiency in Buildings, August 18-20, 2010 in Pacific Grove, CA
- NESEA BuildingEnergy 10 Conference, March 8-10, 2010
- Presenter at the 2009 EEDAL (Energy Efficiency in Domestic Appliances and Lighting) conference, June 24, 2009 in Berlin Germany
- 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

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- 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

Demand Side Resource Potential: A Review of Global Energy Partners' Report for Midwest ISO. Prepared for Project for Sustainable FERC Energy Policy, September 3, 2010.

Beyond Business as Usual: Investigating a Future without Coal and Nuclear Power in the U.S. Prepared for Civil Society Institute, May 11, 2010.

Review of Utility-Owned Distributed Generation Models for New York. Presented by Kenji Takahashi at the Northeast CHP Initiative Meeting, April 13, 2010.

Assessing the Multiple Benefits of Clean Energy: A Resource for States Prepared for U.S. Environmental Protection Agency, February 1, 2010.

North Dakota Energy Efficiency Potential Study Report Prepared for Plains Justice, December 1, 2009.

South Dakota Energy Efficiency Potential Study Report Prepared for Plains Justice, December 1, 2009.

The Costs of Increasing Electricity Savings through Utility Efficiency Programs: Evidence from US Experience, proceeding of the 2009 EEDAL (Energy Efficiency in Domestic Appliances and Lighting) conference, held in Berlin, Germany in June 2009

No Need to Wait: Using Energy Efficiency and Offsets to Meet Early Electric Sector Greenhouse Gas Targets. Prepared for Environmental Defense, May 1, 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

Integrated Portfolio Management in a Restructured Supply Market. Report co-authored by Resource Insight, prepared for Ohio Consumers' Counsel, June 30, 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.

TESTIMONY

Assisted in the preparation of “Testimony on New Jersey Natural Gas Company's Proposed Energy Efficiency Program.” Testimony of David Nichols, prepared for New Jersey Division of the Ratepayer Advocate, July 9, 2010.

Assisted in the preparation of “Testimony on Philadelphia Gas Works' Proposed Energy Efficiency Plan.” Testimony of David Nichols, prepared for Pennsylvania Office of Consumer Advocate, March 26, 2010.

Assisted in the preparation of “Testimony Regarding Florida Demand Side Management Policy and Planning.” Testimony of William Steinhurst, prepared for Natural Resources Defense Council, and Southern Alliance for Clean Energy, July 6, 2009.

Assisted in the preparation of “Testimony Regarding Interstate Power and Light Company's Proposed Energy Efficiency Program.” Testimony of Chris James, prepared for Community Coalition, and Plains Justice, August 29, 2008.

Assisted in the preparation of “Testimony Regarding Nova Scotia Power Inc's Demand Side Management Plan.” Testimony of Bruce Biewald and David Nichols, prepared for Nova Scotia Utility and Review Board, March 17, 2008.

Assisted in the preparation of “Testimony on Review of the Nevada Power Company's Demand Side Management Plan in the 2006 Integrated Resource Plan”. Testimony of Tim Woolf, prepared for Nevada Bureau of Consumer Protection, September 13, 2006.

Assisted in the preparation of “Review of Pacific Gas and Electric's Application to Establish a Demonstration Climate Protection Program and Tariff Option. Testimony of Amy Roschelle, prepared for The Utility Reform Network (TURN), May 5, 2006.

Assisted in the preparation of “Testimony Regarding the Sierra Pacific Power Company's Gas Demand-Side Management Plan.” Testimony of Timothy Woolf, prepared for Nevada Bureau of Consumer Protection, February 22, 2006.

Resume dated December 2010.