
Patrick Knight

Research Associate

Synapse Energy Economics

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PROFESSIONAL EXPERIENCE

Synapse Energy Economics, Inc., Cambridge, MA. Research Associate, 2010 – present.
Performs consulting, conducts research, and assists in writing testimony and reports on a wide range of issues including economic technologies and policies, water and energy interactions, air emissions of electricity generation, consumer advocacy, costs and benefits of energy efficiency programs and measures, and environmental compliance and technology strategy within the energy industry.

New Ecology, Inc., Boston, MA. Associate, 2009.

Wrote reports for project managers and clients on how to economically make green energy improvements for low-income housing projects. Designed content, tested programming, and wrote business presentations for WegoWise, an in-house utility tracking and management software system. Prepared documentation for LEED Credits and other green certification programs.

Save the Harbor / Save the Bay, South Boston, MA. Senior Marine Educator, Summer 2008.

Led outreach programs from local Boys and Girls Clubs, YMCAs, and other youth groups in marine biology at Piers Park and Constitution Beach in East Boston. Educated twenty to thirty East Boston students between the ages of six and fourteen on marine biology in the Boston Harbor Explorers program.

ACTIVITIES

Beyond Solar Energy – Exploring Urban Renewable Energy Sources in Boston Field Project, Medford, MA, Spring 2009.

Studied the efficacy and viability of urban wind and biomass generators in conjunction with Boston's Department of Energy. Interviewed wind power stakeholders in the public, private and nonprofit sectors and created a final report and presentation.

Solar Decathlon Team – Tufts University / Boston Architectural College, Medford, MA, Fall 2008 – Fall 2009.

Developed a web-based analytic software tool used for finding the cost and payback time for solar panels in any location in the United States based on costs, rebates, and solar input. Aided in the research and planning of a zero-energy house that participated in the National Solar Decathlon competition in Washington, DC. Researched regulations and incentives that would help to make a zero-energy house affordable and would allow it to be sited in Boston. Designed and managed web content for the competition.

ADDITIONAL EXPERIENCE

Tufts University Department of Urban and Environmental Policy and Planning Web Manager, 2008 – 2010

Boston College Geology and Geophysics Research Assistant, Fall 2007 – Spring 2008

Boston College Student Tutor, Spring 2007 – Spring 2008

EDUCATION

Tufts University, Master of Arts in Urban and Environmental Planning and Policy, Medford, MA, 2010.

Boston College, Bachelor of Science in Geophysics, Chestnut Hill, MA, 2008.

Minors in mathematics and philosophy. Dean's List all semesters. Best Undergraduate Presentation; BC Geology and Geophysics Dept. Student Colloquium 2006. Member of Golden Key International Honor Society, Slavic Honor Society.

Resume dated October 2010.