

Spencer Fields, Associate

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PROFESSIONAL EXPERIENCE

Synapse Energy Economics, Inc., Cambridge, MA. *Associate*, 2015 – present, *Research Associate*, May 2013 – 2015.

- Provides consulting and researching services and assists in writing testimony and reports on a wide range of issues, including employment impacts of investments in renewable and traditional energy projects, state-specific impacts and planning requirements of the Clean Power Plan and other environmental regulations, utility integrated resource planning practices, offshore wind and storage, and the role of demand-side or distributed resources in various markets.
- Serves as one of Synapse's primary electric sector modelers, with specialized expertise running NREL's Regional Energy Deployment System (ReEDS). Uses ReEDS and other industry-standard models to evaluate long-term energy plans and utility integrated resource planning.
- Participates in ISO-NE's stakeholder process, promoting the proper inclusion of energy efficiency and distributed generation in forecasts and in markets.
- Assesses impacts and costs associated with varying levels of renewables integration across the country, particularly in the context of conventional resource retirement.
- Analyzes and tracks market rule changes that will impact consumers, renewable energy, energy efficiency, and more.
- Created several Excel-based tools designed to streamline the project management and budget creation processes at Synapse.

Worldwatch Institute, Washington, DC. *Climate and Energy Research Intern*, January 2013 – April 2013.

- Analyzed global climate and energy policy for contribution to publications, funding proposals, and blogs.
- Special focus on establishing renewable energy targets and creating energy roadmaps for the Caribbean. Provided research and analytical support for the Caribbean Sustainable Energy Roadmap project.
- Assisted with researching and writing a climate finance overview paper for members of a population and climate change working group.

Brown University Climate and Development Lab, Providence, RI. *Researcher*, August 2011 – May 2013.

- Researched topics related to climate finance, with a special focus on funding for Least Developed Countries.
- Analyzed indicators of climate justice internationally, including foreign direct investment in both clean and dirty energy technologies in Latin America and the Caribbean.
- Co-authored multiple policy briefs for the International Institute for Environment and Development and the European Capacity Building Initiative.

Green Edge, LLC, New York, NY. *Research Intern*, Summer 2010.

- Analyzed corporate sustainability ranking systems and contributed to a published report.
- Researched similarities and differences among multiple prominent corporate sustainability rankings systems and presented results weekly.

Brown University Sustainable Consulting Partnership, Providence, RI. *Vice President of Member Relations, Senior Consultant, Project Leader*, 2009 – 2012.

- Collaborated with community stakeholders to develop and execute community sustainability projects, including an energy consumption behavior change campaign.

EDUCATION

Brown University, Providence, RI

Bachelor of Arts in Environmental Studies and Bachelor of Arts in Hispanic Studies, 2012

PUBLICATIONS

Fields, S., S. Hill-Cristol. 2017. *Stacking Up the Benefits of Storage for New England: A White Paper in Support of Integrating Energy Markets and Public Policy*. Synapse Energy Economics.

Peterson, P., S. Fields. 2017. *2017 Update: Challenges for Electric System Planning: Reasonable Alternative to ISO-NE's Discounts for Uncertainty*. Synapse Energy Economics for New Hampshire Office of Consumer Advocate.

Knight, P., S. Fields, F. Ackerman, T. Comings, A. Allison. 2017. *Empowering Kentucky: A no-regrets plan to create jobs, improve health, lower bills, and invest in a just transition while cutting harmful emissions*. Synapse Energy Economics for Kentuckians for the Commonwealth.

Fagan, B., A. Napoleon, S. Fields, P. Luckow. 2017. *Clean Energy for New York: Replacement Energy and Capacity Resources for the Indian Point Energy Center Under New York Clean Energy Standard (CES)*. Synapse Energy Economics for Riverkeeper and Natural Resources Defense Council.

Wilson, R., S. Fields, P. Knight, E. McGee, W. Ong, N. Santen, T. Vitolo, E. A. Stanton. 2016. *Are the Atlantic Coast Pipeline and the Mountain Valley Pipeline Necessary? An examination of the need for additional pipeline capacity in Virginia and Carolinas*. Synapse Energy Economics for Southern Environmental Law Center and Appalachian Mountain Advocates.

Hurley, D., S. Fields. 2016. "State of Demand Response in New England." Synapse Energy Economics for Rhode Island Energy Efficiency and Resource Management Council.

Luckow, P., E.A. Stanton, S. Fields, W. Ong, B. Biewald, S. Jackson, J. Fisher. 2016. *Spring 2016 National Carbon Dioxide Price Forecast*. Synapse Energy Economics.

Jackson, S., N. R. Santen, P. Knight, S. Fields, B. Biewald, E. A. Stanton. 2015. *Clean Power Plan Handbook: A Guide to the Final Rule for Consumer Advocates*. Synapse Energy Economics for National Association of State Utility Consumer Advocates.

Ackerman, F., T. Comings, S. Fields. 2015. *The Clean Energy Future: Protecting the Climate, Creating Jobs, and Saving Money*. Synapse Energy Economics, Labor Network for Sustainability and 350.org.

Knight, P., S. Fields, S. Jackson, W. Ong, N. R. Santen, B. Biewald, E. A. Stanton. 2015. *Multi-State Compliance with the Clean Power Plan in CP3T*. Synapse Energy Economics for the National Association of State Utility Consumer Advocates.

Peterson, P., S. Fields. 2015. *Challenges for Electric System Planning: Reasonable Alternatives to ISO-NE's Discounts for Uncertainty*. Synapse Energy Economics for E4 Group.

Fields, S., P. Luckow, T. Vitolo. 2015. *Clean Energy Future Technical Review*. Synapse Energy Economics.

Vitolo, T., P. Luckow, S. Fields, P. Knight, B. Biewald, E. A. Stanton. 2015. *Lower Electric Costs in a Low-Emission Future*. Synapse Energy Economics.

Luckow, P., B. Fagan, S. Fields, M. Whited. 2015. *Technical and Institutional Barriers to the Expansion of Wind and Solar Energy*. Synapse Energy Economics for Citizens' Climate Lobby.

Peterson, P., S. Fields. 2015. *Comments to ISO-New England's Distributed Generation Forecast Working Group on the Draft 2015 Solar Forecast*. Synapse Energy Economics.

Daniel, J. A. Napoleon, T. Comings, S. Fields. 2015. *Comments on Entergy Louisiana's 2015 Integrated Resource Plan*. Synapse Energy Economics for Sierra Club.

Luckow, P., E. A. Stanton, S. Fields, B. Biewald, S. Jackson, J. Fisher, R. Wilson. 2015. *2015 Carbon Dioxide Price Forecast*. Synapse Energy Economics.

Fields, S., E. A. Stanton, P. Knight, B. Biewald, J. Daniel, S. Jackson, E. Karaca, J. Rosenkranz, K. Takahashi. 2014. *Calculating Alabama's 111(d) Target*. Synapse Energy Economics for the Southern Environmental Law Center.

Fields, S., E. A. Stanton, P. Knight, B. Biewald, J. Daniel, S. Jackson, E. Karaca, J. Rosenkranz, K. Takahashi. 2014. *Calculating Georgia's 111(d) Target*. Synapse Energy Economics for the Southern Environmental Law Center.

Fields, S., E. A. Stanton, P. Knight, B. Biewald, J. Daniel, S. Jackson, E. Karaca, J. Rosenkranz, K. Takahashi. 2014. *Alternate Scenarios for 111(d) Implementation in North Carolina*. Synapse Energy Economics for the Southern Environmental Law Center.

Peterson, P., S. Fields, M. Whited. 2014. *Balancing Market Opportunities in the West: How participation in an expanded balancing market could save customers hundreds of millions of dollars*. Synapse Energy Economics for the Western Grid Group.

Comings, T., S. Fields, K. Takahashi, G. Keith. 2014. *Employment Effects of Clean Energy Investments in Montana*. Synapse Energy Economics for Montana Environmental Information Center and Sierra Club.

Luckow, P., J. Daniel, S. Fields, E. A. Stanton, B. Biewald. 2014. "CO₂ Price Forecast: Planning for Future Environmental Regulations." *EM Magazine*, June 2014, 57-59.

Peterson, P., M. Whited, S. Fields. 2014. *Synapse Comments on FAST Proposals in ERCOT*. Synapse Energy Economics for Sierra Club.

Hornby, R., N. Brockway, M. Whited, S. Fields. 2014. *Time-Varying Rates in the District of Columbia*. Synapse Energy Economics for the Office of the People's Counsel for the District of Columbia.

Luckow, P., E. A. Stanton, B. Biewald, S. Fields, S. Jackson, J. Fisher, F. Ackerman. 2014. *CO₂ Price Report, Spring 2014: Includes 2013 CO₂ Price Forecast*. Synapse Energy Economics.

Hurley, D., P. Knight, J. Daniel, S. Fields. 2014. *Brayton Point Capacity Payment Requirement Analysis*. Synapse Energy Economics for Consumer Advocates of New England and the New Hampshire Office of the Consumer Advocate.

Knight, P., D. Hurley, S. Fields. 2014. *Energy Efficiency in US Capacity Markets*. Synapse Energy Economics.

Peterson, P., M. Whited, S. Fields. 2014. *Demonstrating Resource Adequacy in ERCOT: Revisiting the ERCOT Capacity, Demand and Reserves Forecasts*. Synapse Energy Economics for Sierra Club, Lone Star Chapter.

Daniel, J., S. Fields, and D. Hurley. 2014. *Memorandum Regarding an Updated Economic Analysis of Schiller Station Coal Units*. Synapse Energy Economics for the Conservation Law Foundation.

Ackerman, F., S. Jackson, S. Fields. 2014. *Sustainable Development for the Navajo Nation: Replacing the Navajo Generating Station with Renewable Energy*. Synapse Energy Economics for the Chorus Foundation.

Malone, E. T. Woolf, K. Takahashi, S. Fields. 2013. "Appendix D: Energy Efficiency Cost-Effectiveness Tests." *Readying Michigan to Make Good Energy Decisions: Energy Efficiency*. Synapse Energy Economics for the Council of Michigan Foundations.

Ciplet, D., J. T. Roberts, M. Khan, S. Fields and K. Madden. 2013. *Least Developed, Most Vulnerable: Have Climate Finance Promises Been Fulfilled for the LDCs?* European Capacity Building Initiative.

Ciplet, D., S. Fields, et al. 2012. *The eight unmet promises of fast-start climate finance*. International Institute for Environment and Development.

Ciplet, D., J. T. Roberts, M. Khan, L. He and S. Fields. 2011. *Adaptation finance: How can Durban deliver on past promises?* International Institute for Environment and Development.

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