

Ezgi Karaca, Research Fellow

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PROFESSIONAL EXPERIENCE

Synapse Energy Economics, Inc., Cambridge, MA. *Research Fellow*, September 2014 – present.

- Evaluates environmental and economic impacts of energy policy through cost-benefit analysis and energy system modeling.

TrueLight Energy, Boston, MA. *Energy Market Analyst*, May 2014 – September 2014.

- Performs cost-benefit analysis for capacity markets, day ahead markets
- Analyzes REC opportunities for three different renewable projects in two ISOs, prepares weekly reports to Senior Management
- Provides research of new trends, incentive policies in PJM, NYISO, and competitive solutions in renewable energy based on proprietary forecasted pricing modeling for potential investment project of a utility based in PA
- Responsible for net position, hedge allocations, and profit reports of solar generation portfolios

ETRM Energy Consulting and Risk Management, Istanbul, Turkey. *Consulting Intern*, June 2012 – September 2012

- Performed technology and market analysis, researched optimization strategies, and developed analysis reports for energy company investment planning in natural gas markets
- Used E/CTRM, energy trading forecasting software, to conduct supply-demand analysis in electricity market, prepared analyses on “Turkish Electricity Exchange Market Effectiveness”

EDUCATION

Massachusetts Institute of Technology and Northeastern University (Joint Studies), Boston, MA
MS in Energy Studies, Expected 2015
Fullbright Scholar

Braunschweig Technical University, Braunschweig, Germany
BS in Chemical Engineering, 2013
Minor in Mechanical Engineering, 2013

Middle East Technical University, Ankara, Turkey
Mechanical Engineering, 2012

PUBLICATIONS

Stanton, E. A., P. Knight, J. Daniel, B. Fagan, D. Hurley, J. Kallay, E. Karaca, G. Keith, E. Malone, W. Ong, P. Peterson, L. Silvestrini, K. Takahashi, R. Wilson. 2014. *Massachusetts Low Gas Demand Analysis: Final Report*. Synapse Energy Economics for the Massachusetts Department of Energy Resources.

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.

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