

Brian Conlon

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ENERGY AND ENVIRONMENTAL ECONOMICS, INC. *Senior Consultant*

San Francisco, CA

Mr. Conlon develops and employs economic optimization models to produce thorough, credible analyses that help E3's clients design more efficient energy policies and strategies. Through numerous projects planning and evaluating building electrification policies for the California Energy Commission and utilities, he has gained a strong background in rate design and cost-effectiveness testing. Mr. Conlon has carried over this expertise to E3's electric vehicle (EV) practice area, where he has developed E3's EVGrid model and led a benefit-cost analysis of light-duty EVs for New York State Energy Research and Development Authority (NYSERDA) to provide an informed outlook of transportation electrification's statewide economic impacts. Because of his deep interest in energy markets, he has also applied his skills working closely with balancing authorities throughout the western U.S. to investigate the benefits of participating in the Western Energy Imbalance Market (EIM).

Mr. Conlon's interest in modeling the economics of building and transportation electrification stems from the cross-cutting relevance of these sectors to everyday life and the importance of determining cost-effectiveness so that electrification can fulfill its potential to reduce carbon emissions. Insights provided by Mr. Conlon's modeling have helped our clients make informed decisions in designing cost-effective policies enabling electrification. Highlights of Mr. Conlon's past E3 projects include:

- Designed and evaluated pathways for cost-effective compliance with California Energy Commission's proposed Zero Net Energy goals for new residential and non-residential structures
- Developed models to analyze economic and carbon impacts of residential building electrification under future Title 24 building code standards
- Orchestrated production simulation runs in PLEXOS to analyze changes in generator dispatch and quantify economic benefits associated with EIM participation for six utilities, including Arizona Public Service, Idaho Power, Los Angeles Department of Water and Power, and Portland General Electric
- Developed a flexible Excel-based tool for forecasting the adoption of distributed solar photovoltaic systems, which is used for planning and policy design in major markets throughout the U.S.
- Refined operational and resource constraints for a hydropower dispatch model, providing utilities with a realistic picture of how to optimize bids across several electricity markets

OAK RIDGE NATIONAL LABORATORY ENVIRONMENTAL SCIENCES DIVISION

Oak Ridge, TN

Weatherization Assistance Program (WAP) Research and Development Assistant Aug 2012 – Dec 2014

- Performed cost benefit analysis to determine health impacts of weatherization
- Built economic evaluation models from large datasets spanning diverse disciplines
- Wrote quality assurance and organizational programs for data management in R and SPSS

- Analyzed data to quantify the influence of social networks on weatherization proliferation

**OAK RIDGE NATIONAL LABORATORY
CLIMATE CHANGE SCIENCE INSTITUTE**

Higher Education Research Experiences (HERE) Intern

Oak Ridge, TN
May 2012 – Aug 2012

- Developed decision pathway frameworks to compensate for uncertain risk in coastal adaptation
- Synthesized data to coordinate policy with stakeholder preference and best management practices

SOUTHERN ALLIANCE FOR CLEAN ENERGY

Coal Policy Research Intern

Knoxville, TN
Jan 2012 – May 2012

- Updated a Research Attorney/Policy Analyst on national and regional coal policy
- Contacted organizations and compiled geographic data to construct a coal ash database, southeastcoalash.org

Education

University of Tennessee

B. S. Honors Environmental Studies

Energy Policy Concentration

B.A. German Language & Literature

Minors in Economics and Political Science

Knoxville, TN

May 2014

May 2014

Technische Universität Dortmund

German language courses

Dortmund, Germany

Mar 2011 – Sept 2011

Selected Publications

1. Tonn, B., Rose, E., Hawkins, B., Conlon, B. (2014). *Health and Household-Related Benefits Attributable to the Weatherization Assistance Program*. ORNL/TM-2014/345, Oak Ridge National Laboratory, Oak Ridge, TN.
2. Conlon, B., Tonn, B. (2015). Findings from Survey Administered to Weatherization Training Centers. ORNL/TM-2015/84, Oak Ridge National Laboratory, Oak Ridge, TN.
3. Rose, E., Hawkins, B., Conlon, B., Treitler, I. (2014). *Assessing the Potential of Social Networks as a Means for Information Diffusion – the Weatherization Experiences (WE) Project*. ORNL/TM-2014/405, Oak Ridge National Laboratory, Oak Ridge, TN.
4. Preston, B.L., Maloney, M., Thomsen, D., Smith, T., Mangoyana, R., Conlon, B. (2013). *A Multi-Criteria Analysis of Coastal Adaptation Options for Local Government*. Report. Sydney Coastal Councils Group. Sydney, Australia.