

# Theodore Love

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## Professional Experience

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### **Green Energy Economics Group, Inc. – Cuttingsville, VT**

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| <i>President</i>                           | <i>2024 to Present</i> |
| <i>Partner</i>                             | <i>2017 to 2024</i>    |
| <i>Senior Associate and Data Scientist</i> | <i>2013 to 2017</i>    |
| <i>Associate</i>                           | <i>2010 to 2013</i>    |
| <i>Analyst</i>                             | <i>2007 to 2010</i>    |

For over 15 years, Theodore “Theo” Love has been providing insights into the design, analysis, and implementation of energy efficiency and distributed energy resource programs and portfolios in twelve states, three Canadian provinces, and China. He has a particular focus on EE/DER policy analysis, program design and implementation, cost-effectiveness testing, financing, and building scalable tools to analyze everything from individual projects to programs to portfolios. Some recent project experience includes:

- Providing regulatory support to the Massachusetts Office of the Attorney General on the Mass Save portfolio of programs and review of Eversource’s geothermal network pilot.
- Providing regulatory and policy analysis assistance to the Small business Utility Advocate in California and Ontario on various energy efficiency dockets.
- Ongoing review and analysis of EfficiencyOne’s energy efficiency portfolio in Nova Scotia on behalf of the Consumer Advocate of Nova Scotia.
- Design, regulatory, and implementation support for voluntary electric and gas energy efficiency programs in Pennsylvania for UGI, PGW, and Columbia Gas.
- Working with PSE&G in New Jersey on forecasting and scaling their internally managed commercial and industrial programs.

2007 – 2010

*Consultant, Alter & Rosen, LLP, New York, NY*

2006 – 2007

*Client Reporting Analyst, AllianceBernstein LP, White Plains, NY*

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## Affiliations

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**Association of Energy Service Professionals (AESP)** - Business Issues and Regulatory Models Topic Committee Co-Chair 2023 - present

**AESP** Gas Topic Committee Co-Chair 2019-2023

**AESP** National Conference Planning Committee 2021, 2022, 2023

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## Recent Project Experience

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Green Energy Economics Group, Inc.

### **Economic and Policy Analysis**

*Attorney General's Office of Ratepayer Advocacy- Massachusetts* (October 2023 – Present)

- Provides economic, technical, and policy related consulting services to the AG's office related to MA's 2025 to 2027 Energy Efficiency Plans and other decarbonization issues, such as the Clean Heat Standard, HEAT Loans, performance incentives, program design, and cost-effectiveness testing.
- Lead consultant on review of Eversource's \$27 million network geothermal demonstration project.

### **Economic and Policy Analysis**

*Small Business Utility Advocate - California* (June 2020 – Present)

- Provided testimony and analysis on cost recovery for wildfire management and grid hardening efforts for Southern California Edison (Docket No. A23-05-010)
- Reviewed plans and provided testimony on codes and standards, program budgets, and non-energy benefits (Docket No. A22-02-005)
- Provided assistance on comments and testimony regarding phase out of gas incentives (Docket No. A22-02-005)
- Reviewed plans and provided testimony on cost-effectiveness test and application of Automated Response Technology (ART) Program. (Docket No. A22-05-002)
- Assisted SBUA with analysis of claims and provided feedback on potential areas of mismanagement of funds (Docket No. A22-06-003)
- Reviewed plan and worked with SBUA to draft advice letter on program design related to small business, measures selection, and reporting requirements. (Docket No. R08-16-021)
- Participated in working group to examine the definition of underserved customers. Authored report on participation rates for small and microbusinesses in CA energy efficiency programs. (Docket No. R13-11-005)
- Provided comments on cost-effectiveness tools and reporting databases for Energy Efficiency programs (Docket No. R13-11-005)
- Reviewed third-party evaluation plans (Docket No. R13-11-005)
- Participated in workshops and developed comments and testimony supporting small business access to clean energy financing (Docket No. R20-08-022).

### **Economic and Policy Analysis**

*Small Business Utility Alliance – Ontario, CA* (June 2021 – Present)

- Reviewed plan and participated in fully litigated proceeding, including providing testimony on best practices and program design, coordination with electric programs, cost-effectiveness, shareholder incentives, and stakeholder engagement. (Matter No. EB-2021-0002)

### **Economic and Policy Analysis**

*Consumer Advocate – Nova Scotia*

*(March 2019 – Present)*

- Member of DSM Advisory Group (DSMAG) on behalf of the Consumer Advocate of Nova Scotia to provide ongoing support for design and implementation of programs.
- Participated in stakeholder process to develop a new cost-effectiveness test in 2024.
- Provided analysis and written testimony on Efficiency One's (E1) 2023 – 2025 DSM Plan (Matter No. M10473) as it relates to historical spending, affordability, underserved communities, and avoided costs.
- Provided analysis and written testimony on Efficiency One's (E1) 2020 – 2022 DSM Plan (Matter No. M09096) as it relates to spending and savings levels, affordability, and allocation of funds.
- Provided comments on the 2019 DSM Potential Study's economic analysis and projection assumptions and approach

### **Development and Implementation of Energy Efficiency and Conservation Plans**

*UGI Utilities, Inc. – Pennsylvania*

*(June 2015 – Present)*

Assist UGI Utilities, Inc. and PNG with the development and approval of Energy Efficiency and Conservation (EE&C) Plans for their UGI Gas PNG Gas, and UGI Electric divisions, including:

- Ongoing evaluation and portfolio planning activities for both UGI Gas and UGI Electric energy efficiency portfolios.
- Developing an achievable efficiency scenarios for UGI Gas and PNG Gas.
- Designing a five-year, \$27 million energy efficiency and conservation plan for UGI Gas. Submitting direct testimony on behalf of UGI Gas, Inc. on the design and implementation of the proposed plan (Docket No. R-2015-2518438)
- Designing Phase II of the energy efficiency and conservation plan for UGI Gas. Submitting direct testimony on behalf of UGI Gas, Inc. on the design and implementation of the proposed plan (Docket No. M-2024-3048418)
- Designing a five-year \$15 million energy efficiency and conservation plan for PNG Gas. Submitting direct testimony on behalf of PNG Gas, Inc. on the design and implementation of the proposed plan (Docket No. R-2016-2580030)
- Assisting with the design and implementation and reporting of the UGI Electric's voluntary EE programs. Designing and assisting with approval for a five-year \$7.2 million electric energy efficiency and conservation plan (Docket No. M-2018-3004144)

### **Strategic Planning and Implementation of DSM Portfolio**

*Philadelphia Gas Works (PGW) - Philadelphia, Pennsylvania*

*(August 2008 – Present)*

- Assisting with ongoing program planning and implementation of both the Low-Income Usage Reduction Plan (LIURP) and the market-rate DSM portfolio.

- Provided supporting testimony and analysis for the Phase III market-rate DSM plan under Docket No. P-2014-2459362.
- Designed Phase II plan with PGW and submitted direct testimony supporting the plan on behalf of PGW (Docket No. P-2014-2459362)
- Member of lead consulting team that aided in the design and approval of PGW's five-year, \$54 million portfolio of DSM programs;
- Providing ongoing technical assistance in the development of PGW's \$35 million Phase II five year plan.
- Providing ongoing technical support in program design and implementation, including the roll-out of six programs that, combined since inception, have saved 120,000 MMBtus at a cost of approximately \$17 million;
- Developed specifications for and currently collaborating with internal PGW staff on database system to track weatherization projects, rebate applications, and other information pertaining to PGW's DSM portfolio;
- Developed multiple Excel-based tools used by contractors to perform field audits, provide QA/QC, and track ongoing progress for contractors, programs, and the portfolio as a whole;
- Provided research and analysis support for multiple rounds of expert testimony before the Pennsylvania Public Utility Commission (Docket R-2009—2149884);
- Aided in the issuance of RFPs and selection of candidates for over \$40 million in contracts;
- Major contributor to PGW's ongoing formal reporting and evaluation process, including the issuance of five implementation plans, three annual reports, and two impact evaluations.

#### **Program Management and Benefit Cost Analysis Expert**

*Public Service Enterprise Group (PSE&G) – New Jersey. (Oct 2021 – Apr 2023, Feb 2024 - present)*

- Consulted on tracking, forecasting and management of PSE&G's internally run commercial Engineered Solutions and Direct Install programs.
- Assisted with rollout of tracking system for PSE&G DSM portfolio of internally managed program.
- Assisted with the design and deployment of the NJ Comfort Partners tracking system across seven utilities, including the transfer and review of two previous legacy databases.
- Developed training materials and reference documents for Engineered Solutions program.
- Provided assistance with calculation of six economic tests for PSE&G's energy efficiency and conservation portfolio, including development of calculation engine and launch as a subcontractor to ANB Enterprises.

#### **Development and Regulatory Support for DSM Portfolio**

*Columbia Gas of Pennsylvania - Pittsburgh, Pennsylvania*

*(February 2022 – Present)*

- Successfully developed, provided regulatory support for, and got approval of a three-year voluntary gas energy efficiency plan and provided supporting testimony under Docket No. P-2014-2459362.

- Developed plan updated and successfully received PA PUC approval for plan update in 2024 under Columbia's 2024 Rate Case proceeding (Docket No. R-2024-3046519)
- Ongoing assistance with the launch and implementation of the first three-year voluntary gas energy efficiency plan.

#### **Technical Assistance Provider**

*U.S. Department of Housing and Urban Development (HUD)* (January 2025 – Present)

- Worked as part of a team with Capital Access Inc. to provide a Multi-State Needs Assessment for a "Program-in-a-box" concept to leverage CDBG funding with additional sources of federal, state, and local funding.

#### **Program Implementer Subject Matter Expert Consulting**

*The JPI Group – Philadelphia, PA* (September 2024 – Present)

- Building workforce development processes specific to the energy efficiency industry
- Conduct market assessments to assist business development strategy efforts

#### **DSM Potential Studies in New York, New Jersey, and Pennsylvania**

*Optimal Energy, Inc. - Vermont* (December 2018 – December 2019)

- Assisted Optimal Energy, Inc. with the development of measure assumptions and characterizations for statewide, electric and gas DSM potential studies.

#### **Natural Gas Efficiency Options and EE&C Plan for Peoples Natural Gas**

*Peoples Natural Gas, Inc. – Pennsylvania* (September 2017 – February 2019)

- Prepared report on program, sector, and portfolio-level cost and savings for 29 natural gas administrators in 11 States, and provided recommendations for potential natural gas DSM opportunities for Peoples Natural Gas and assist with stakeholder process.
- Developed five year \$42 million Energy Efficiency and Conservation (EE&C) Plan, and provided testimony to support the adoption of the Plan (ongoing).

#### **Analytic and Technical Support for DSM Tracking Systems**

*PECO Energy Company – Pennsylvania* (September 2016 – December 2017)

*Commonwealth Edison Company – Illinois* (August 2017 – August 2018)

*Companywide* (September 2020 – December 2023)

- Subcontractor to ANB Systems Inc. to provide domain expertise and analytic support to rollout of enhanced tracking system.
- Developed dashboards and internal reports used by PECO's EM&V team, business planning, and various program and portfolio managers.
- Guided automation of PECO's six-month and annual reporting process.
- Provided expert guidance on the development of cost effectiveness calculation modules for clients in Pennsylvania and New Jersey
- Oversaw project development of audit tool for ComEd's Carbon Free School Assessment Program.

#### **Technical Assistance for Energy Efficiency Program Planning**

#### **Green Mountain Power - Vermont**

*(August 2012 – July 2017)*

- Developed multivariable regression model and framework to estimate the cost per kW to address a reliability gap in the St. Albans region with targeted energy efficiency.
- Reviewed and analyzed program proposals for the \$20 million Community Energy & Efficiency Development Fund (CEED Fund), including the development of scoring and rebalancing mechanisms;
- Analyzed dataset of 5,000 custom business projects to establish models used for future planning exercises.
- Prepared report on uncounted benefits of renewable generation sources for Vermont.

#### **Analysis of Energy Efficiency in British Columbia**

BC Sustainable Energy Association & Sierra Club BC, *British Columbia* (May 2011 – June 2014)

- Provided comments and energy efficiency opportunities report for proceedings on FortisBC Gas and Electric's long-term DSM plans in December of 2013.
- Assisted on research for direct testimony on reasonableness of gas DSM Plan by Fortis Energy Utilities before the British Columbia Utilities Commission, BCUC Project No. 3698627;
- Technical support on assessment of FortisBC Electric's long-term DSM plan and corresponding expert testimony;
- Assistance with direct testimony and technical support on assessment of BC Hydro's long-term DSM plan, before the BCUC.

#### **Energy Efficiency Potential in Oklahoma**

Sierra Club, *Oklahoma* (April 2011 – November 2011, December 2013 – January 2014)

- Provided updated report for energy efficiency in Oklahoma and additional comments on PUC rulemaking for electric and gas utility programs.
- Preparation of report on energy efficiency potential for Oklahoma;
- Assistance with research and drafting comments on the US regional haze Federal Implementation Plan for the State of Oklahoma;
- Research and formulation of energy efficiency potential projections provided as part of expert testimony for Oklahoma Gas & Electric's rate case before the Corporation Commission of Oklahoma, Cause No. PUD 201100087.

#### **Technical Assistance for Energy Efficiency Programs**

Focus on Energy - *Wisconsin*

*(June 2011 – August 2013)*

- Developed and customized cost-effectiveness calculators for Wisconsin's Focus on Energy portfolio of energy efficiency programs;
- Trained staff and other consultants on usage of tools and general economic analysis of energy efficiency programs;
- Provided QA/QC on cost-effectiveness analysis of 14 programs spending over \$160 million in two years.

#### **Chicagoland Energy Efficiency Portfolio**

People's Gas - *Chicago, Illinois*

*(September 2008 – January 2013)*

- Providing ongoing regulatory support;
- Provided cost-benefit analysis of various program scenarios and aided in the analysis of contractor bids;
- Customized excel-based portfolio and project cost-effectiveness tools to client's specifications.

### **Testimony Support for Expanding Gas Energy Efficiency in Pennsylvania**

Citizens for Pennsylvania's Future, *Pennsylvania* (July 2013 – September 2013)

- Provided support on preparation of testimony regarding Peoples Gas of Pennsylvania's DSM plans, including preparation of benchmarking report and alternative scenario projections.

### **Energy Efficiency Potential in Texas**

Sierra Club, *Texas* (May 2012 – August 2012)

- Research and development of alternative energy efficiency potential scenarios for the ten investor owned utilities (IOUs) in Texas;
- Development of comments for the Public Utility Commission of Texas;
- Development of presentation before the Energy Efficiency Incentive Program Committee.

### **Austin Energy's Energy Efficiency Potential**

Austin City Council Consumer Advocate, *Austin, Texas* (April 2012)

- Research and development of alternative energy efficiency potential scenarios for Austin Energy.

### **Nevada Power's Energy Efficiency Potential**

Sierra Club, *Nevada* (November 2011 – June 2012)

- Research on Nevada Power's Integrated Resource Plan (IRP) and development of alternative energy efficiency potential projections.

### **Comments on EmPower Maryland Programs**

Sierra Club, *Maryland* (September 2011 – October 2011)

- Research for and development of comments on EmPower Maryland's energy efficiency programs, including the development of alternative energy efficiency potential projections.

### **Ontario Power Authority Field Audit Support Tool**

Green Communities Canada - *Ontario, Canada* (January 2011 – May 2011)

- Collected and implemented specifications for updating the tool used by Ontario Power Authority's low-income program field agents to collect data and determine project net present values;
- Added custom features including customer input forms, saving and closing routines, and database file importing.

### **Energy Efficiency Potential in Arkansas**

Sierra Club/Audubon Society, Arkansas

(September 2009 – March 2010)

- Research and drafting assistance for expert testimony on energy efficiency' as an alternative to the White Bluff Steam Electric Station before the Public Service Commission of Arkansas, Docket No. 09-024-U.

### **Training for NGOs Working on Energy Efficiency Projects in China**

ISC and NRDC – United States and China

(August 2008 – September 2010)

- Developed training materials and provided remote and in-person training sessions on the economic and financial analysis of industrial retrofit projects for structuring and negotiating financial incentive offers to customers;
  - o Worked with the Institute for Sustainable Communities (ISC) to aid its efforts to promote energy efficiency in the Guangdong and Jiangsu Provinces (February 2009 – September 2010);
  - o Worked with the National Resource Defense Council (NRDC) to aid in its efforts in China, especially in conjunction with a \$100 million revolving loan fund from the Asia Development Bank (August 2008- January 2009).

### **Incentive Calculations for the Project Cost-effectiveness Analysis Tool (CAT)**

Efficiency Vermont – Burlington, Vermont

(November 2008 – June 2010)

- Aided in the design of a new approach to calculating incentives for custom energy efficiency projects based on financing and reaching a desired rate of return;
- Modified CAT's cash-flow projection engine, an Excel VBA system, to accommodate the new approach to incentives.

### **Vermont's 20-year Forecast of Electricity Savings from Sustained Investment**

Efficiency Vermont – Burlington, Vermont

(December 2008 – October 2009)

- Provided components of final report relating to long-term trends for the environment (climate change, land-use, and water-use), population growth, and governmental regulation;
- Provided additional technical support on electric demand-side savings potential.

### **Connecticut's Long Term Acquisition Plan**

Connecticut Office of the Consumer Council – Connecticut

(August – October 2008)

- Provided research and support for expert testimony regarding long-range energy-efficiency procurement plan of the Energy Conservation Management Board, on behalf of the Connecticut Office of Consumer Counsel.

### **Energy Efficiency Plans of BC Hydro and Terasen Gas**

BC Sustainable Energy Association and

The Sierra Club - British Columbia, Canada

(October 2008 – March 2009)

- Provided research and support for expert testimony and technical support on assessment of BC Hydro's long-term DSM plan, before the BCUC, on behalf of the BC Sustainable Energy Association and Sierra Club Canada (November 2008 – March 2009);

- Provided research and support for expert testimony on assessment of Terasen Gas conservation plans before the BCUC, on behalf of the BC Sustainable Energy Association and Sierra Club Canada (October 2008).

## Testimony and Proceeding Participation

| Forum                                        | On Behalf Of                                 | Docket/Matter                                                                                                                         | Date         | Issues Addressed                                                                                                                                      |
|----------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Massachusetts Department of Public Utilities | Massachusetts Office of the Attorney General | D.P.U. 24-140 through D.P.U. 24-149 - 2025-2027 Three-Year Energy Efficiency Plan                                                     | November-24  | Policy, program and plan design. Heat pumps. Incentive design. Cost-effectiveness. Rate design.                                                       |
| California Public Utility Commission         | Small Business Utility Advocates             | Application 23-12-001 - PG&E Recovery of Expenditures for Wildfire Mitigation, Catastrophic Events, and other Recorded Costs (U 39 3) | November-24  | Costs and reasonableness of wildfire mitigation approach.                                                                                             |
| Pennsylvania Public Utility Commission       | UGI Gas Utilities Inc. – Gas Division        | Docket No. M-2024-3048418 - Petition of UGI Gas for Approval of Phase II of its Energy Efficiency and Conservation Plan               | April-24     | Energy Efficiency & Conservation Plan Design Development and History.                                                                                 |
| Pennsylvania Public Utility Commission       | Columbia Gas of Pennsylvania                 | Docket No. R-2024-3046519 - 2024 Rate Case Proceeding                                                                                 | March-24     | Updates to Three-Year Energy Efficiency Plan                                                                                                          |
| California Public Utility Commission         | Small Business Utility Advocates             | Application 23-05-010. Southern California Edison Company 2025 General Rate Case                                                      | February-24  | Small Business Customer Engagement; Cost Recovery of Grid Hardening, Vegetation Management, Targeted Undergrounding; Environmental and Social Justice |
| Pennsylvania Public Utility Commission       | Philadelphia Gas Works                       | Docket No. P-2014-2495362. Approval of Demand-Side Management Plan for FY 2024-2026                                                   | September-23 | Historical performance. Plan design and cost-effectiveness.                                                                                           |

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|----------------------------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Pennsylvania Public Utility Commission | UGI Utilities Inc. - Electric Division | Docket No.M-2023-3043230 . Petition of UGI Utilities, Inc. – Electric Division for Approval of Phase IV of its Energy Efficiency and Conservation Plan                                | September-23 | Energy efficiency plan proposal, including projections for costs, savings, and cost-effectiveness.                                             |
| California Public Utility Commission   | Small Business Utility Advocates       | R. 22-02-005. Application of Pacific Gas and Electric Company for Approval of 2024-2031 Energy Efficiency Business Plan and 2024-2027 Portfolio Plan (U 39 M) and associated Matters. | October-22   | Issues related to 3-year Energy Efficiency Business Plan                                                                                       |
| California Public Utility Commission   | Small Business Utility Advocates       | R. 22-02-005. Application of Pacific Gas and Electric Company for Approval of 2024-2031 Energy Efficiency Business Plan and 2024-2027 Portfolio Plan (U 39 M) and associated Matters. | September-22 | Comments on the phase out of gas incentives.                                                                                                   |
| Nova Scotia Utility and Review Board   | The Consumer Advocate of Nova Scotia   | Matter No. M10473 An Application by EfficiencyOne for Approval of a 2023 – 2025 Demand Side Management (“DSM”) Resource Plan                                                          | May-22       | Historical performance of portfolio, proposed scenarios, affordability, addressing underserved communities, program design, and avoided costs. |
| Pennsylvania Public Utility Commission | Columbia Gas of Pennsylvania           | Docket No. R-2022-3031211. Columbia Gas of Pennsylvania, Inc. 2022 Rate Case Proceeding                                                                                               | March-22     | Three-year energy efficiency plan proposal, including projections for costs, savings, and cost-effectiveness.                                  |
| Ontario Energy Board                   | Small Business utility Alliance        | EB-2021-0002. Enbridge Gas Inc. – Multi Year Demand Side Management Plan (2022 – 2027)                                                                                                | December-21  | Analysis of commercial program goals and program design                                                                                        |
| California Public Utility Commission   | Small Business Utility Advocates       | R. 21-02-014. Rulemaking to Address Energy Utility Customer Bill Debt Accumulated During the COVID-19 Pandemic.                                                                       | April-21     | Report on Analysis of Small Business Utility Bill Arrearages in California during COVID-19                                                     |

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|----------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------|
| Pennsylvania Public Utility Commission | Philadelphia Gas Works                  | P-2014-2459362, Petition of Philadelphia Gas Works for Approval of Demand-Side Management Plan for FY 2016-2020                              | October-20 | Historical performance of PGW's DSM Phase II Plan and modifications to program design.                              |
| California Public Utility Commission   | Small Business Utility Advocates        | R. 20-08-022 to Investigate and Design Clean Energy Financing Options for Electricity and Natural Gas Customers                              | July-20    | Comments to address options for small business customer                                                             |
| Nova Scotia Utility and Review Board   | The Consumer Advocate of Nova Scotia    | Matter No. M09096, Efficiency 1 (E1) Application for Approval of 2020 – 2022 Demand Side Management (DSM) Resource Plan                      | May-19     | DSM Investment Levels and Affordability, Usage of Unspent Ratepayer Funding, Rate and Bill Impacts, Target Setting. |
| Pennsylvania Public Utility Commission | UGI Gas Utilities Inc. – Gas Division   | R-2018-3006814, UGI Gas Utilities Inc. – Gas Division, Rate Case                                                                             | January-19 | Energy Efficiency & Conservation Plan and Total Resource Cost Implementation.                                       |
| Pennsylvania Public Utility Commission | UGI Utilities, Inc. – Electric Division | M-2018-3004144, Petition of UGI Utilities, Inc. – Electric Division for Approval of Phase III of Its Energy Efficiency and Conservation Plan | August-18  | Electric energy efficiency and conservation plan development, projections, implementation, and EM&V.                |
| Pennsylvania Public Utility Commission | Peoples Natural Gas Company             | M-2017-2640306, Petition of Peoples Natural Gas Company LLC for Approval of its Energy Efficiency and Conservation Plan                      | January-18 | Energy efficiency study, energy efficiency & conservation plan, and total resource cost implementation.             |
| Pennsylvania Public Utility Commission | UGI Penn Natural Gas, Inc               | P-2016-2580030, UGI Penn Natural Gas, Inc. Rate Case                                                                                         | January-17 | Energy efficiency & conservation plan and total resource cost implementation.                                       |
| Pennsylvania Public Utility Commission | UGI Utilities, Inc.                     | P-2015-2518438, UGI Utilities, Inc.- Gas Division Rate Case                                                                                  | January-16 | Energy efficiency & conservation plan and total resource cost implementation.                                       |
| Pennsylvania Public Utility Commission | Philadelphia Gas Works                  | P-2014-2459362, Philadelphia Gas Works Demand-Side Management Plan for FY 2016-2021                                                          | May-15     | Analysis of Phase I DSM Plan and design of Phase II DSM Plan.                                                       |

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## Publications

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Love, Theodore. J. Nunley. “Using Smart Thermostats to Engage Residential Customers and Drive Comprehensive Retrofit Projects” In *Proceedings of the ACEEE 2020 Summer Study on Energy Efficiency in Buildings*, Washington, D.C.: American Council for an Energy Efficient Economy.

Love, Theodore. “The Future for Residential Gas Efficiency is Combined”. *Strategies*. Association of Energy Service Professionals. January 11, 2019.

Love, Theodore. “Using Open Data to Predict Energy Usage: What tax lot data can tell us about energy usage intensity in New York City”. *Behavior Energy, and Climate Change Conference 2015*. Sacramento, CA

Plunkett, John, Theodore Love, Francis Wyatt. “An Empirical Model for Predicting Electric Energy Efficiency Acquisition Costs in North America: Analysis and Application”. In *Proceedings of the ACEEE 2012 Summer Study on Energy Efficiency in Buildings*, #906, Washington, D.C.: American Council for an Energy Efficient Economy.

Gold, Elliott, Marie-Claire Munnely, Theodore Love, John Plunkett, Francis Wyatt.  
“Comprehensive and Cost-Effective: A Natural Gas Utility’s Approach to Deep Natural Gas Retrofits for Low Income Customers.” In *Proceedings of the ACEEE 2012 Summer Study on Energy Efficiency in Buildings*, #442, Washington, D.C.: American Council for an Energy Efficient Economy.

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## Education

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**Clark University** – Worcester, MA

B.A. Magna cum Laude, *Mathematics and Computer Science*, 2006.

Study Abroad Program, Spring Semester 2005 (Kansai Gaidai University: Osaka Japan)

**General Assembly:** New York City, NY

Data Science Intensive Course, 2015