

SEC INTERROGATORY #40

INTERROGATORY

[B/6/3] Please provide a detailed list of all studies of NTG carried out by the expert, divided between empirical studies (self-report surveys, etc.) and non-empirical studies (jurisdictional reviews, etc.). Please provide links to all of the listed studies. Please identify the personnel of the expert that were involved in each study, and their roles.

RESPONSE

Research Into Action has done evaluation research, including NTG research, since its founding in 1996, and its president, Jane Peters (one of the report's authors) has done evaluation research for more than 35 years. Of about 500 projects in Research Into Action's project database, 188 are characterized as program (including impact or process) evaluations, many of which have involved NTG research. It would be impractical to compile a detailed list of all studies of NTG carried out by the company or by Dr. Peters.

The following are examples of projects in which Research Into Action either conducted NTG research as a sole contractor or a subcontractor or led a team that conducted NTG research for programs in the nonresidential sector. Dates in parentheses indicate the year the report was submitted:

- NorthWestern Energy's portfolio of electric and gas residential and nonresidential energy efficiency and renewable energy programs (2012, 2013). The 2013 report available here:  
<http://puc.sd.gov/commission/dockets/gaselectric/2012/ge12-001/vol1.pdf>
- Energy Trust of Oregon's energy efficiency programs for commercial buildings (2009). Available here:  
[https://www.energytrust.org/wp-content/uploads/2016/11/Evaluation\\_2006-2007\\_EB\\_Prog.pdf](https://www.energytrust.org/wp-content/uploads/2016/11/Evaluation_2006-2007_EB_Prog.pdf)
- The Independent Electricity System Operator's. IESO, formerly the Ontario Power Authority) program commercial portfolio (2011-2016). Available here:  
<http://www.ieso.ca/sector-participants/conservation-delivery-and-tools/evaluation-measurement-and-verification>
- The State of Colorado's Governor's Energy Office's (GEO) residential, commercial, and industrial energy efficiency programs (2012). Available here:  
<http://hermes.cde.state.co.us/drupal/islandora/object/co%3A20831/datastream/OBJ/view>

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- Ameren Missouri commercial lighting spillover (2016, 2017). Reports available here:  
<https://www.efis.psc.mo.gov/mpsc/commoncomponents/viewdocument.asp?DocId=936007290>  
<https://www.efis.psc.mo.gov/mpsc/commoncomponents/viewdocument.asp?DocId=936095356>
- Southern California Gas Company's High Opportunity Projects and Programs pilot (ongoing, no report yet).
- Fort Collins (Colorado) Utilities' and Plate River Power Authority's residential and commercial energy efficiency and renewable energy programs (ongoing, no report yet).

The following is a summary of related work done in addition to the above primary NTG research:

- In 2007, Research Into Action provided testimony to the Montana Public Service Commission to present details about a process evaluation and market assessment we had conducted for NorthWestern Energy, which included estimates of free-ridership and spillover values. Our testimony helped NorthWestern Energy meet its regulatory requirements.
- In 2008, Research Into Action worked with Energy Trust of Oregon to develop and test a new self-report method for estimating free-ridership that mitigates the biases in previous approaches. This approach (which is described in our report to Enbridge) also is briefer than, and eliminates the subjectivity often found in, previous methods. We have since conducted several research projects for Energy Trust, relating to this new method. In 2009, we conducted a pilot test across the phone, web, and paper delivery modes. In 2010, we helped Energy Trust roll out the method in its full suite of residential, C&I, appliance recycling, and renewable programs. We adapted the pilot survey instrument to multiple programs and measure groups and collected and analyzed the survey data. We have applied this method in several evaluations (see below), and we currently are initiating a project to assess the feasibility of shifting from phone to web survey for this approach.
- In 2010, Research Into Action provided consulting to Nova Scotia Power Inc. on developing a protocol for the assessment of free-ridership, spillover, and net-to-gross calculations for energy efficiency programs for the Province.
- In 2015, Research Into Action led the development of a method of assessing lighting spillover savings in the commercial sector for Ameren Missouri. This method improves on previous approaches by combining information from trade allies and customers to generate assessments of program influence on sales that are specific to varying lighting sales channels. Research Into Action has since used this approach in successive evaluations of that program and has applied

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this approach to residential sales of heat pumps for FortisBC (2018).

- From 2013 through 2016, Research Into Action was a member of the Statewide Evaluator team for the State of Pennsylvania. As part of our activities, we provided guidance on the establishment of statewide NTG methodologies, including both free-ridership and spillover assessment approaches.