

# Research Conducted by DTE Energy and Consumers Energy

(Vote on your favorite topics to be presented at the EO Collaborative)

Topic	Description	Vote (*If voting for multiple topics, please indicate priority - 1, 2, 3, . . . , up to 14)
<b>DTE Energy Topics</b>		
<b>Emerging Tech Field Demonstration</b>	Review lessons learned from C&I HVAC field demonstrations (in a region similar to DTE) to collect information on costs, performance, and field experience.	
<b>In-House Savings</b>	Explore how in-house (at generation or line loss reduction) can be claimed toward energy efficiency, find best practices of this occurring.	
<b>Strategic Energy Management</b>	Conduct a review of Strategic Energy Management (SEM) programs documenting best practices and identifying critical success factors. SEM is a focused process to work in-depth with large customers to plan and identify EE savings over a long-term cycle. SEM integrates capital upgrades, process improvements, maintenance, and employee engagement to yield deeper, more sustainable savings.	
<b>Market Transformation</b>	Design and research an approach for claiming whole market savings. Identify potential new market transformation measures (e.g., Wi-Fi enabled thermostats, LEDs, Heat Pump Water Heaters, etc.) that are best candidates for market transformation.	
<b>C&amp;I Gas Research</b>	Research to identify natural gas energy efficiency measures that can add to commercial and industrial energy efficiency program portfolio to replace existing measures phasing out in 2016 and beyond.	
<b>IRP Support</b>	Benchmarking review of how other utilities are incorporating energy efficiency into their IRP processes. Determine where utilities included energy efficiency as a resource and how it has worked.	
<b>On-Site Energy Managers</b>	DTE Energy has certified energy managers that work with its largest customers. Their purpose is to help the customer in becoming energy efficient and help manage demand. Research explores and defines how energy savings can be claimed and how costs should be accounted.	
<b>Residential Building Code Enhancement Study</b>	Research seeks to answer whether or not there is sufficient savings opportunity for DTE Energy and Consumers Energy to run a building energy codes support program.	

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<b>Measurement &amp; Verification 2.0</b>	DTE's AMI network may provide an opportunity to derive more value from residential energy efficiency programs by obtaining more timely and more granular estimated impacts from advanced evaluation approaches, including packaged software tools and custom econometric analysis. The objective of the M&V 2.0 research is to evaluate these approaches, relative to traditional impact evaluation techniques.	
<b>C&amp;I Energy Efficiency Auction</b>	Energy Efficiency Auctions, also known as reverse auctions, are designed to reduce the cost of delivering electric and gas savings and identify the customers' minimum acceptable incentive amount. Research aims to understand how Energy Efficiency Auctions work, how they are managed and evaluated, and whether they are cost effective.	
<b>Consumers Energy Topics</b>		
<b>Use of Evaluation Research to Improve Programs</b>	Consumers Energy makes ongoing efforts to translate evaluation results to measureable program improvements. This would include presentation of examples of from both the residential and commercial research-driven program improvements.	
<b>Commercial Customer Market Characteristics Study</b>	The objective of this study was to assess the prevalence of energy efficient equipment in commercial facilities in CE service territory. As part of the research, 203 on-site visits were completed to inventory HVAC equipment, lighting, and other equipment along with building characteristics and future capital purchase plans.	
<b>Contractor Advisory Panel</b>	Consumers Energy had created a Contractor Advisory Panel (CAP) of trade allies participating in their contractor facing programs. The 100+ CAP members are asked to complete an on-line survey every 6-8 weeks with questions about incentives, customer engagement, training, and other program topics. CAP members may periodically be asked to participate in other research activities including focus groups and in-depth interviews.	
<b>Behavioral Demand Response</b>	This study looks at the demand and energy savings impacts from a Behavioral Demand Response (BDR) pilot in which customers were notified of peak demand events, asked to reduce energy consumption during peak hours, and provided feedback on their efforts.	