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Abstract Title: Organizational Change in Industry Through Strategic Energy Management: Part 2, Results and Barriers to Success

Abstract Text:

In its various forms, implementation of Strategic Energy Management (SEM) at industrial facilities results in improved energy performance through behavior change of personnel at all levels of the organization. Quantified results from the US DOE Superior Energy Performance program show that an ISO 50001 certified energy management system results in energy and energy cost savings significantly greater than those achieved in a business as usual case and that the vast majority of these savings come from operational changes to the way energy is used. However, improvements to energy performance are only obtained given the confluence of certain organizational conditions. In order for these organizational conditions to be present, people as individuals and collectively within the organization must shift their behavior. Some of the key challenges to the successful implementation of an energy management system include: securing continued top management commitment, shifting the role of an energy efficiency champion from a single person to the whole organization, adopting a data driven approach to operations, and ensuring that energy performance improvements are sustained through continued investment in newly established energy management behaviors and procedures. These challenges will be described and presented as a starting point for questions and answers.