

Executive Summary

Right now, people around the world are making choices that impact the environment: on personal, local, political, and worldwide scales. In the United States, Energy Star is an organization that proves the government's focus on the environment. Energy Star issues tax credits and gives recognition to proactive consumers and organizations. Improving a commercial building's steam system is one way to reduce its energy consumption. New York City has America's largest steam loop, and therefore the largest potential for improvement.

Steam traps are components designed to preserve the efficiency and safety of steam systems. Two ways of ensuring that the steam traps in a building are functional are manual audits and steam trap monitoring systems. Mosto Technologies Incorporated (MTI) offers both services to New York City facilities, and an opportunity for improvement arose. Steam trap monitoring systems are superior to manual audits, and Mosto Technologies Incorporated would benefit from the ability to offer potential clients reliable cost savings estimates associated with switching.

The mission of this project is to fulfill the sales need of steam trap monitoring companies by providing concrete cost and energy savings potential to buildings that are considering the purchase of a new steam trap monitoring technology. A model has been developed which approximates the return on investment based on building-specific statistics and historic data.

The sales tool has many advantages: increased clientele for MTI, increased quality of information for facility managers, and the reduction of energy consumption in New York City. MTI is expecting an annual \$240,000 cash inflow increase with the use of the model, beginning as soon as implementation occurs. The statistical integrity of the model exceeds MTI's expectations, and is aligned with the original acceptance criteria.