



WPI

NANTUCKET PROJECT CENTER

Managing Energy Use in the Nantucket Municipal System

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Project Description

The purpose of this project was to assist the Nantucket Energy Office in promoting responsible energy use and management in municipal facilities. Through use of the MASSENERGYINSIGHT (MEI) tool, our team consolidated records of liquid fuel and electricity use to track consumption trends, identify instances of efficiency and inefficiency, and generate reports, graphs and other reports that can be used to inform municipal employees about their energy use. A survey was also created and administered to assess town employees' attitudes towards energy conservation. Recommendations were made to the Nantucket Energy Office on how to most effectively make use of the MEI software and implement the SEE THE LIGHT energy education toolkit, to promote efficient energy use within municipal facilities.

Results and Recommendations

- MASSENERGYINSIGHT management software is ready for use by Nantucket Energy Office and Facilities
- Software workflow improvement recommendations made to Peregrine Group
- In general, Town employees are conscious of energy use and conservation, but more can be done by individuals to manage daily energy consumption (as indicated by survey).
- Discrete monitoring of energy consumption would allow for better management of consumption.
 - Make individual departments responsible for managing own energy use and expenditure.
 - Sub-metering of electrical accounts within complexes to pinpoint inefficiencies.
- Create National Grid "Deep Energy Retrofit" pilot program: Nantucket-specific incentive and grant programs tailored to residents and Municipality (e.g. weatherization grants for Town buildings).
- Recommendations for implementation of SEE the light educational toolkit:
 - Energy conservation education for current employees, new employees (included in HR orientation), and all departments on a yearly basis.
 - Distribution of visible reminders of energy conservation tips (e.g. stickers, posters, thermometers)
 - Motivate efficiency through quarterly distribution of MEI reports for each building, showing energy savings made through employee conservation efforts.
 - Competition (as recommended by SEE the Light) would be most effective between town departments, offering energy efficiency upgrades for employees' homes as incentive.
 - Designate "Energy Champions" to monitor conservation efforts in each department.

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