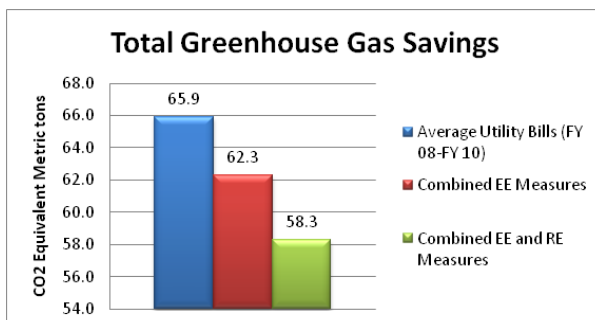
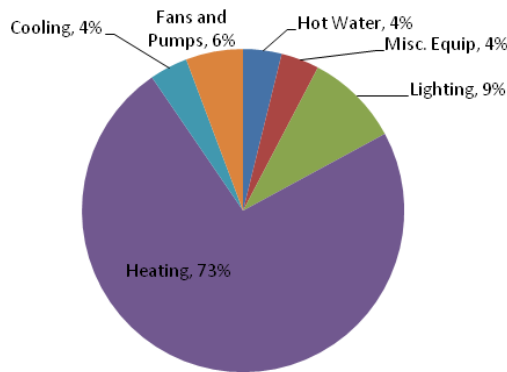




National Renewable Energy Laboratory Community Building Energy Audits *Nationwide*

The Department of Energy (DOE) has started a project to generate energy savings in worship facilities nationwide. It has been determined that detailed energy audits are an effective way to identify energy saving opportunities. The Commercial Buildings Research Team (CBRT) at the National Renewable Energy Laboratory (NREL) has been tasked with developing guidelines for simplified energy audits for these types of buildings. NREL will identify the most common energy saving opportunities through comprehensive energy audits. As part of this project, Facility Engineering Associates (FEA) was contracted to perform comprehensive energy audits on 20 facilities to identify energy savings opportunities for houses of worship.

The energy audits conducted by FEA included a detailed site walkthrough and collection of building data to perform energy modeling to analyze energy consumption patterns and estimate potential energy savings. We analyzed the energy and water consumption, provided performance baselines for the facilities, benchmarked facility performance, and recommended various energy conservation measures (ECMs) that included both capital projects and building operational measures. FEA also evaluated potential renewable energy projects and calculated the greenhouse gas emissions reductions from each of the ECMs.



PRIMARY CLIENT REFERENCE

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COMPLETION DATE: June 2011

PROJECT SIZE: 451,764 SQFT
VALUE OF CONTRACT: \$183,733

CLIENT BENEFITS

- List of achievable energy and water conservation measures
- Benchmarks and baselines for progress monitoring
- Best practices in energy conservation
- Increased energy efficiency

