

Energy Audit

New England Township

HRP Associates, Inc. was selected by this New England town to complete an energy audit of town buildings and complete the required reporting under EECBG funding programs. Initially, HRP collected building information (size, number of occupants, hours of operations, on-site activities, etc.) to benchmark each building utilizing EPA's Portfolio Manager. Following the initial review, HRP completed an inspection of each building to identify potential Energy Conservation Measures (ECMs) including a review of building envelope, HVAC equipment, lighting, motors, pumps, etc. Each of the potential ECMs were evaluated using appropriate spreadsheets, models, and contract or quotes to determine:

- Life expectancy;
- Projected lifetime energy and cost savings;
- Implementation costs;
- Available rebates and grants;
- Total project cost and estimated annual energy and cost savings based on:
 - Simple payback;
 - Return on investment;
 - Site and Source Energy input, and
- Annual CO₂ equivalent savings in pounds.

Based on the review, ECMs were identified and evaluated including lighting and HVAC upgrades, programmable thermostats, temperature setbacks, building envelope improvements, installation of waste oil furnaces, fan controllers and instantaneous hot water heaters, etc. Based on these findings, it was determined that the Town Hall was very energy efficient. However, the building's boiler should be upgraded. In addition, instantaneous hot water heaters should be installed in the town building to reduce operating costs and new garage doors should be installed at the DPW. Following discussions with town officials, HRP completed design and bid documents and incentives applications to complete the upgrades.

FIRM

HRP Associates, Inc.
197 Scott Swamp Road
Farmington, CT 06032
(860) 674-9570

VALUE

\$12,000

■ *HRP was selected by this New England town to complete an energy audit of town buildings and complete the required reporting under EECBG funding programs.*

■ *HRP collected building information to benchmark each building utilizing EPA's Portfolio Manager.*

■ *Based on the findings, it was determined that the Town Hall was very energy efficient but that certain improvements should be made to further improve efficiency and reduce operating costs.*