

## Energy Services Group – ASHRAE Level II Energy Audit Projects

RCM Technologies Inc. is currently working for the New York Power Authority and the City of New York to provide ASHRAE Level II Energy Audits for facilities in the New York Area. Currently, our Energy Services Group has completed ten (10) energy audits for various facilities and an additional ten (10) energy audits have been assigned to commence in early Spring. These projects range from schools to government facilities and hospitals. The following are several projects for which we have completed ASHRAE Level II Energy Audits:

### Coler-Goldwater Hospital

Coler-Goldwater Hospital consists of approximately 1.4 million square feet and is located on Roosevelt Island in New York City. The energy conservation measures developed as a result of the Level II ASHRAE study include:

- Lighting Upgrades
- Decentralization of Boilers
- Replacement of Existing Air Conditioning Units

These recommended energy conservation measures provide an annual energy savings of 35,347,181 kBTU and \$1,013,515 per year. The total cost to implement these measures is \$16,381,972 with a simple payback of 16.2 years.



### Queens County Courthouse

Queen County Courthouse consists of approximately 900,000 square feet and is located at 120-55 Queen Blvd in Queens, New York. The energy conservation measures developed as a result of the Level II ASHRAE study include:

- Lighting Upgrades
- Installation of Occupancy Sensors
- Replacement of Existing Chiller Units
- Replacement of Existing Electrical Motors
- Replacement of Non-Working VFD's
- Installation of Digital Controls
- Installation of Boiler Feedwater Economizers for Three Boilers
- Installation of O<sub>2</sub> Trim Controls for Three Boilers
- Replacement of DHW Heaters

These recommended energy conservation measures provide an annual energy savings of 7,306,414 kBTU and \$266,171 per year. The cost to implement these measures is \$5,197,455 with a simple payback of 19.5 years.



### Intermediate School 174X

Intermediate School 174X consists of approximately 169,000 square feet and is located at 456 White Plains Road in Bronx, New York. The energy conservation measures developed as a result of the Level II ASHRAE study include:

- Lighting Upgrades
- Installation of Occupancy Sensors
- Replacement of Existing Window AC Units
- Replacement of Burners with New Dual Fuel Burners
- Replacement of Pneumatic Valves and Thermostats with Electric
- Replacement of Steam Traps
- Installation of Domestic Hot Water Heater
- Installation of Digital Controls

These recommended energy conservation measures provide an annual energy savings of 2,764,042 kBTU and \$70,529 per year. The total cost to implement these measures is \$961,344 with a simple payback of 13.6 years.



### Michael J. Petrides School

The Michael J. Petrides School consists of approximately 263,000 square feet and is located at 715 Ocean Terrace in Staten Island, New York. The energy conservation measures developed as a result of the Level II ASHRAE study include:

- Installation of Occupancy Sensors
- Installation of Premium Efficiency Motors
- Installation of Time Clock Controls on Exhaust Fans
- Provision of Demand Ventilation Controls
- Installation of Hot Water Temperature Reset Control

These recommended energy conservation measures provide an annual energy savings of 2,330,226 kBTU and \$65,420 per year. The total cost to implement these measures is \$1,230,640 with a simple payback of 18.8 years.

