



Service & Product Provider Partner

Water and Energy Savings Corporation

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Customer

Atlanta Housing Authority

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The Atlanta Housing Authority, in partnership with Water & Energy Savings Corporation, created over \$1 million dollars of savings for fiscal year 2006.

Project Scope

Through a Housing and Urban Development (HUD) Energy Performance Contract, Water & Energy Savings Corporation provided engineering solutions to reduce energy consumption and save money at the Atlanta Housing Authority without additional capital expenditures. The resulting cost savings helped replace aging equipment and provided access to the financing needed for capital improvements. Energy conservation measures were installed at 1,921 public housing units – 9 high rise communities and 1 garden style apartment community. Construction was completed in December 1999 and Water & Energy Savings Corporation is providing monitoring and verification through a 12-year contract.

Project Summary

Water & Energy Savings Corporation installed replacement boilers and chillers, packaged terminal heat pumps, lighting upgrades, electric metering, replacement motors, water leak detection equipment, and water conservation measures. Water & Energy Savings Corporation helped secure a grant from Georgia Power to cover partial payments for lighting upgrades and continues to provide water and energy tracking information on a quarterly basis as well as assistance with HUD financial reporting.

- **Energy Savings**

In the past fiscal year, the energy performance contract saved the Atlanta Housing Authority: 197,728 therms of natural gas, 3,474,345 kwh of electricity, and 93,944 CCF of treated water.

- **Investment**

The upfront investment was \$4-4.2 million for this project.

- **Financial Return**

In the past fiscal year, the energy performance contract saved the Atlanta Housing Authority \$293,070 in natural gas costs, \$255,747 in electricity costs, and \$630,168 in treated water costs for a total annual savings of \$1,178,985.

- **Other Benefits**

The performance contract helps fund energy related capital expenditures on contract properties and the new efficient equipment reduces maintenance costs.

Monitoring & Verifying Energy Savings

Utility cost and consumption data are examined monthly as the International Performance Measurement and Verification Protocol's (IPMVP) Utility Bill Analyses method recommends. Quarterly reviews are provided to the Atlanta Housing Authority.

Distinguishing Value

Water & Energy Savings Corporation provides assistance long after energy conservation measures are installed. The continuous service throughout the contract, education for all stakeholders, annual property inspections, five year audits, and monitoring and verification ensure energy performance success. These efforts have helped the Atlanta Housing Authority meet and surpass ENERGY STAR's nationwide challenge to improve facilities' energy efficiency by 10 percent or more.