



**AN EXPERIENCED LEADER IN INDUSTRIAL CLEAN
AIR, ENERGY AND WATER TECHNOLOGY**

ENERGY EFFICIENCY AND DESIGN-BUILD SERVICES

Altech understands the relationship between production processes and energy reduction, and specializes in delivering innovative, cost-effective solutions to improve environmental performance and reduce costs.

CHARTECH'S IN-PLANT ASSESSMENT SERVICES

Boiler, Steam and Hot Water System Evaluation

Evaluate hot water systems to address opportunities for efficiency improvements, waste heat recovery, system tune-ups, among others.

Refrigeration and Cooling System Optimization

Implement load balancing and streamlining of the distribution of cooling capacity.

Design and Installation of Energy Monitoring Equipment & Software

Implement innovative energy monitoring and software solutions to produce effective reports and respond with capital/operational changes.



DESIGN/BUILD ENERGY UPGRADES

1. Scoping and assessment of implementation requirements for energy upgrades including conceptual design and capital requirements.
2. Detailed engineering for installation/integration of capital projects.
3. Detailed design and commissioning of co-generation projects including turbines, waste heat recovery, bio-gas collection, etc.

PROJECT SUCCESS CASE STUDIES

1. **Saved \$232,000 per year** in a boiler by trimming excess oxygen from 3.5% to 1.5% and preheating combustion air with waste heat from a vent stack (5-month payback).
2. **Saved \$24,000 per year** in refrigeration electrical power consumption by optimizing control of air flows in a meat processing operation (immediate payback). Eliminated the need for new compressors and refrigeration capacity. The capital cost avoided was \$52,000
3. **Saved \$36,000 per year** in electricity by modifying cooling tower fans to allow variable speed control using a temperature feedback (8-month payback).

Altech Environmental Consulting Ltd.

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