

SAMPLE

Case Study: HVAC System Optimization

ABC Office Building
City, NE

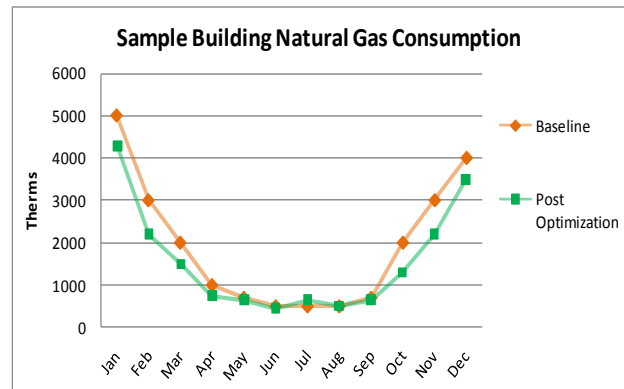
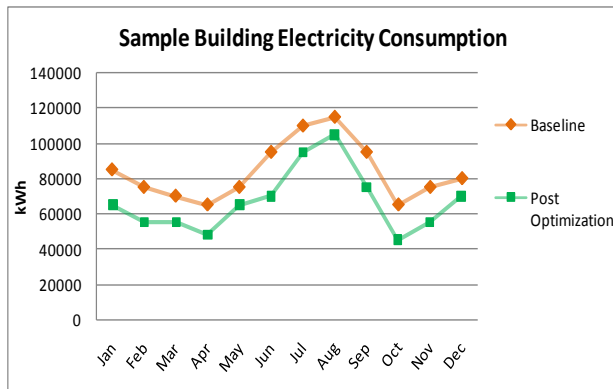
Description of Facility: 40,000 square foot office building

Description of HVAC System: Variable air volume system (two primary air handlers and 20 VAV boxes). Heating provided by natural gas boiler. Chilled water provided by an air-cooled chiller. Direct digital control system.

Energy Conservation Measures completed: Installation of variable frequency drives on primary air handlers, heating water pumps, and chilled water pumps. Modifications made to boiler and chiller sequence of controls. Economizer damper repairs. Improvements to boiler and chiller control sequences, setpoints, and schedules.

Energy Consumption Comparison

The charts below compare baseline energy consumption to post-HVAC System Optimization energy consumption:



Building Energy Performance

The table below shows the energy savings as estimated in the HVAC System Optimization Report, dated February 23, 2009, compared to the actual savings realized during the first year of operation following implementation of the Energy Conservation Measures described above.

	Estimated Savings	Actual Savings	Percent of Estimate Realized
Electricity Consumption (kWh)	80,000	76,000	95%
Electric Demand (kW)	25	22	88%
Natural Gas Consumption (Therms)	5,000	5,500	110%