

MULTI-FACILITY DATA CENTER

COMPREHENSIVE DATA CENTER REVIEW UNCOVERS SAVINGS

Multi-facility data center Company needs to improve acquired data center.

A multi-facility data center Company that provides space, power, and cooling, acquired an existing data center in North Carolina. The data center Company was concerned with operational costs, uptime, second generator needs, and meeting Service Level Agreements of its colocation clients.

Air Force One met with the data center Company owner to discover current operation costs, Service Level Agreements (SLA), and the North Carolina data center's long term goals. Additionally, Air Force One conducted an on-site review of the HVAC, generators, Uninterrupted Power Supply (UPS), battery plant, building envelope, lighting, security, and fire and life safety system.

Based on the information collected, Air Force One established Power Usage Effectiveness (PUE) and Total Cost of Ownership (TCO) benchmarks and compared the information to other similar data centers. Then, Air Force One optimized HVAC equipment usage through preventive maintenance and controls, implemented facility controls solutions, replaced the battery plant, retrofitted lighting, and automated security. These solutions reduced energy costs and extended the useful life of the equipment.

The data center Company cut their Power Usage Effectiveness (PUE) in half and reduced their Total Cost of Ownership (TCO) by 35% after the first year. A portion of these savings were applied to the installation of a needed second generator. Additionally, the facility uptime was guaranteed to meet the Service Level Agreement (SLA) of colocation clients.

