

Benchmarking & Prioritization



Southern 360 Services

Benchmarking

Prioritization

Implementation

Southern 360 helps delete generate \$1.6M in annual savings for a Canadian university by benchmarking their facilities and prioritizing key energy efficiency projects

A university in northeastern Canada uses 50 buildings across two different campuses to serve more than 18,000 students. The university required upgrades to multiple parts of its infrastructure, including lighting and controls, building envelopes and mechanical systems and controls. This customer would also require a 15-year payback on investment.

Leveraging Southern 360's process and energy expertise to capture cost and energy savings

Southern 360 first carried out a benchmarking audit to baseline the university's energy consumption and identified areas for optimization. Based on these insights, Southern created a list of prioritized projects to help this customer achieve their goal of reducing energy use and capture cost savings by improving facility performance. The solutions included optimization of a steam plant system water distribution pumps and piping, installation of an upgraded VRF HVAC system, backup generation, improved ventilation systems, lighting upgrades, motors and deferred maintenance.

Increased Efficiency. Southern installed 50+ transformers and upgrades of steam plant and distribution systems in addition to 40,000+ LED installations and retrofits and 1,000+ lighting control zones, resulting in 10,500,000+ kWh of energy usage conserved.

Energy Savings. By using state-of-the-art modeling software to design and engineer all efficiency upgrades, Southern's expertise helped this customer achieve their energy goals and save nearly \$1.6 million in yearly energy costs.

Faster Payback. The cost savings realized by this project put the university on track to complete the investment payback faster than the required 15 years.

