

## CATAWBA COUNTY ENERGY AUDITS



### OVERVIEW

This project comprises whole-building energy assessments of 25 Catawba County government buildings ranging from 1,200 to 108,000 SF, and totaling nearly 400,000 SF. Each assessment includes an analysis of historical utility data and a walk-through audit resulting in recommendations for energy and water saving measures. Calculations are performed to predict the energy savings, cost savings, and implementation costs for each recommended measure. Recommendations cover operation and maintenance measures as well as capital investment projects. Examples include optimized equipment scheduling and control sequences, air-side economizing, LED lighting, computer power management, solar hot water, and more innovative building-specific solutions.

The findings of these audits have led to significant upgrade projects, one of which is expected to result in energy cost savings of over \$65,000/yr.

Several buildings were particularly complex in nature due to multiple expansions and retrofits over the years. The buildings contained several generations of HVAC systems patch-worked together, often without sufficient building plans or owner understanding of system operation. Taking the time to decipher how the buildings actually function was paramount to discovering the most effective energy saving measures.

### SA ROLE

Lead Auditors & Energy Analysts

### SIZE

400,000 sf. ft.

### COMPLETION DATE

2015

### TOTAL COST

\$44,438

### CONSULTANTS

N/A