UNITED WAY OF GREATER LIMA

ENERGY STAR CERTIFICATION

smith-boughan Mechanical
QUALITY SERVICE SOLUTIONS

Project Details

Client: **Community Service Center**
Design Professional: **Smith-Boughan**
Services Provided: **Design & Implementation – HVAC, Controls & Lighting System Upgrades**
Market: **Commercial Office Building**
Location: **616 Collett Street, Lima, Ohio 45801**

Energy Savings = **$7,542/year**

Natural Gas use ↓ **56%**
Electrical use ↓ **31%**
Energy use ↓ **43%**

Pre-Project Energy Star Score = **51**
Post-Project Energy Star Score = **89**

Project Summary

The client was faced with replacing an existing HVAC system that had exceeded its useful life by more than several decades and was oversized for the application. These factors were causing excessive energy consumption, unreliable operation and were creating comfort concerns for the occupants, with a highly potential risk failure.

The facility management, acting as good stewards of their funding, wanted to upgrade the facility with a more efficient and reliable system, while reducing their maintenance costs. (Through partnering with Smith-Boughan to develop a unique means to accomplish their goals, while allowing the energy savings and utility incentives to fund the project.)

The original HVAC system was over-sized by more than 30%, which was leading to occupant discomfort, decreased energy efficiency, and excessive utility bills. The new system design and scope of services included the following:

- Replaced existing Multi-Zone Air Handling Unit with (3) zoned Trane air handling units and high-efficiency heat pump condensing units.
- Supplemental heating was accomplished by installing an ultra-efficient hot water boiler system with (4) hot water duct coils.
- The entire system is controlled by a new Trend building automation system, which provides unit control utilizing energy savings strategies designed to utilize less energy while optimizing occupant comfort and indoor air quality.
- The existing T12 lighting throughout the facility was replaced with high-efficient T8 fixtures.

ENERGY STAR

ENERGY STAR CERTIFIED The EPA has awarded ENERGY STAR Certification to the Pangle Community Service Center that houses The United Way of Greater Lima. To be certified as ENERGY STAR, a building must meet strict energy performance standards set by the EPA, specifically a building must earn an ENERGY STAR score of 75 or higher, indicating that it performs better than at least 75 percent of similar buildings nationwide. The Community Service Center achieved an ENERGY STAR score of 89, and is operating in the top 11 percent of similar office buildings nationwide.

[Since choosing to certify their building The United Way of Greater Lima has joined thousands of environmental leaders who understand that energy efficiency isn't just the first step to being green. It's a smart business decision that can have a high return on investment and is necessary to remain competitive.]