



# With PEPCO We Install New HVAC and Intelligent Controls to Achieve Significant Savings

We were able to reduce energy cost and consumption by 20–40% in each unit.

The annual energy savings exceeded \$95,000.



## Asset Facts

Date Built	1950
Square Feet	180,000
Asset Type	Industrial Manufacturing

## Project Facts

Annual Energy Savings	810,799 kWh
Annual Savings	\$95,829
Gross Investment	\$266,188
Rebates	\$63,726
Rebates as % of Total Project Cost	24
Net Investment	\$202,462
Net Payback	2.11 years

**ROI 47%**

## Challenge

The 180,000 ft<sup>2</sup> manufacturing facility in the mid-Atlantic United States often ran processing and office equipment 24-hours a day to meet customer needs.

The HVAC system consisted of 70 constant volume roof-top units (RTUs), varying in make, size, age, run-time, and operating schedule.

## Our Solution

Converted constant volume roof-top units (RTUs) to variable speed units, accurately matching power usage to the cooling and heating demand of the facility.

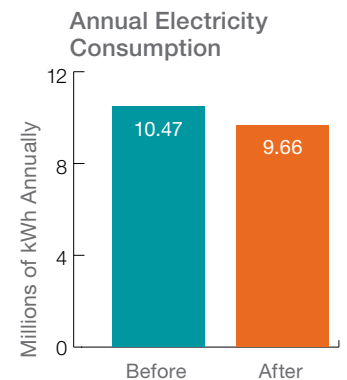
- Added dynamic fan and damper controls
- Improved demand control ventilation
- Optimized air-side economizers
- Extended useful life of units by decreasing wear and tear.

Integrated a highly intelligent building management system (BMS), lowering operating costs with real-time analytics that uncovered additional energy optimization opportunities.

- Installed upgraded digital thermostats
- Introduced networked controllers and sensors
- Improved monitoring and control capabilities.

## Energy Savings – 8%

- Energy usage reduced by over 810,000 kWh per year
- Annual energy savings exceed \$95,000
- Our engineered and implemented integrated energy efficiency solution for RTUs reduced energy cost and consumption by 20–40% for each unit.



**How can we help you?** Please contact Green Generation Solutions at [info@greengenerationsolutions.com](mailto:info@greengenerationsolutions.com) or 301.202.2930