



PowerSecure



West Windsor Plainsboro Regional School District

CASE STUDY

Project Background

PowerSecure was selected through a competitive bidding process to implement this energy conservation project for our energy services customer. The objectives of the School District were to reduce energy expenditures and improve the carbon footprint in several of their educational facilities. The qualification standards for selection were strict and highly competitive.



PowerSecure provided turnkey installation of heating, ventilation and air conditioning system upgrades, along with domestic hot water system replacements, for three schools in the district. The existing systems were beyond useful life and in disrepair.

The work scopes included the following projects.

For West Windsor High School South, PowerSecure removed and replaced:

- ***(160) fan coils and unit ventilators in classrooms throughout the school, including replacing all ductwork with new***
- ***(3) dedicated outdoor air system (DOAS) units on the roof with all new ductwork.***
- ***(2) air-cooled chillers***
- ***(1) split system water cooled chiller***
- ***(2) heating hot water boilers with new, high efficiency models***
- ***(17) air-handling units of various sizes***

For Community Middle School, PowerSecure removed and replaced:

- ***(7) heating hot water boilers and flues***
- ***(2) domestic hot water heaters***

For Village Elementary, PowerSecure removed and replaced:

- ***(3) RTU AC systems***

For other sites across the district, PowerSecure removed and replaced:

- ***Over (200) control valves for unit ventilators***
- ***(77) electrical transformers with high-efficiency models across (9) sites.***

The Challenge

PowerSecure managed the projects to ensure the work was completed before the upcoming 2021-2022 school year. This project started around the beginning of the pandemic in 2020. Performing the project with all new protocols of social distancing, sanitizing tools, temperature taking, etc, poses a whole new challenge to meeting budgets and schedules.



The Solution

The PowerSecure team worked closely with the customer and end users in order to recommend schedule modifications to maximize productivity not only for PowerSecure but also for all the subcontractors as well

Benefits to the Customer

PowerSecure's energy efficiency solution provided:

- 1** New systems and equipment improving overall reliability
- 2** Reduced energy costs
- 3** Reduced maintenance costs
- 4** Improved air quality

"...I have been extremely impressed with the team you have at West Windsor schools...has been doing a great job of getting the work done and taking the extra effort to make sure the work is done right the first time. The professionalism and responsiveness of your personnel has made the project go very smoothly as we approach the start of school...Your teams should be commended on doing a great job thus far, and I look forward to closing out this project successfully."

- **Willem Pennings**, PMP, CEM, Project Manager, Energy and Sustainability Services, Schneider Electric

HEADQUARTERS

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