



Lenape Regional High School District Engineer of Record for Energy Savings Plan

PROJECT INFORMATION

CONCORD DIVISION

Commercial

PROJECT LOCATION

Mount Laurel, NJ

MARKET

K-12 Schools

SERVICES

Engineer of Record

CONSTRUCTION COST

\$2 Million

ABOUT THE CLIENT

The Lenape Regional High School District is a comprehensive regional public high school district that serves students in ninth through twelfth grades from eight municipalities in Burlington County, NJ. The eight municipalities cover a combined area of 350 square miles, which represents roughly one-third of the entire area of Burlington County, the largest county in the state.

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PROJECT SUMMARY

The Lenape Regional High School District is comprised of four high schools and an administration building with over 1.3 million square-foot of facility space. In early 2012, the District had completed a Local Government Energy Audit through the New Jersey Clean Energy Program via Concord Engineering. The audit identified multiple efficiency upgrades throughout the District facilities that could be implemented providing a reduction in energy consumption and costs along with a favorable return on investment. At the conclusion of the audit, it was recommended that the District evaluate applying for the Burlington County Bridge Commission's Green backs to Go Green Program in order to finance and implement the project through a self-perform Energy Savings Improvement Program. As such, the District decided to continue its relationship with Concord Engineering in order to complete the Energy Savings Plan in accordance with ESIP guidelines.

PROJECT HIGHLIGHTS

- Concord provided the District with an Energy Savings Plan that outlines over \$2 million in energy efficiency projects that will net the District over \$200,000 in energy savings annually.
- Upgraded interior and exterior lighting throughout all four high schools with the most current fluorescent and LED lighting technologies that will save energy and reduce maintenance efforts.
- New occupancy-based controls were installed in all classrooms, offices, and restrooms to automatically turn off lights while occupants are not present.
- Removal of unnecessary heating systems, replacement of outdated and oversized cooling equipment, replacement of inefficient motors, and installation of variable speed drives.
- Upgrades to the kitchen hood exhaust systems and walk-in refrigeration boxes.
- Building management system upgrades that will allow remote access and improved controls capabilities in-order-to optimize system performance.