

# Education

## Hilton Central School District

Hilton, NY

**Project Cost:** \$3.2 million

**Annual Cost Savings:** \$245,000

**Facility Description:** Six public school buildings comprised of a total of 657,489 square feet including three elementary schools, one middle school, one high school, and one transportation facility.

**Contract Term:** 15-year Energy Savings Performance Contract (ESPC)



*“Once the equipment is paid for, in 10 years, the district will keep all of the money it saves – approximately \$245,000 a year at current utility prices. That’s enough to hire seven to eight new teachers with salary and benefits totaling \$35,000 each. We think it’s a tremendous opportunity for the district. It results in true savings over a long period of time regardless of what direction energy prices take.”*

Steve Ayers  
Director of Business Operations  
Hilton Central School District

NORESCO developed and implemented a comprehensive \$3.2 million energy-efficiency program that is saving the Hilton central School District more than \$200,000 annually. This program enabled the school district to be eligible for an additional \$217,000 in utility incentives used to offset maintenance costs for the new equipment.

NORESCO is responsible for project and construction management, incremental maintenance and tax exempt municipal lease financing of the entire project.

From the summer of 1997 to the Spring of 1998, NORESKO implemented energy conservation measures that included:

- Installing new lighting systems in each of the buildings to maximize energy savings while ensuring the highest quality lighting environment for students, faculty and staff. More than 6,000 fixtures were replaced or retrofitted with energy efficient equipment.
- Replacing some of the larger, inefficient electric motors with premium-efficiency models in two facilities. Standard-efficiency motors greater than 5 horsepower were candidates for this upgrade.
- Installing new variable frequency drives for the primary heating loop to reduce electricity demand on the pump motors that otherwise would operate at full capacity even to satisfy partial load requirements. The VFDs save electricity and eliminate uncomfortable swings in temperature by matching motor operation precisely to the building’s heating requirements.
- Evaluating the performance of the existing pneumatic system and replacing pneumatic thermostats in the Merton Williams facility.
- Downsizing the HVAC system and providing proper building ventilation. The downsizing was made possible by the reduced cooling loads attained with the new lighting systems, reduced heating losses resulting from new energy-efficient windows and doors, and decreased core-area cooling loads resulting from the properly sized heating system and better ventilation.
- Replacing existing windows with new sliding window units with 1-inch thick insulated glass to reduce heat loss.
- Replacing electric food preparation equipment with energy efficient gas fired units.
- Installing an automated pool cover to reduce evaporation and heat loss during unoccupied periods.

NORESCO is the nation's most experienced energy service company providing comprehensive and proven energy-efficiency solutions and infrastructure development and operations strategies to a wide range of customers. A recognized industry leader installing and operating over \$1.4 billion of proven energy solutions in diverse markets across the nation, NORESKO has built on-site energy infrastructure generating more than 300 megawatts of power, and has helped customers improve energy efficiency saving over 31 billion-kilowatt hours of electricity and 71 trillion Btus of fuel.



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