

# Education

## Webster Central School District

Webster, NY

**Project Cost:** \$2.5 million

**Annual Cost Savings:** More than \$300,000

**Facility Description:** Public schools, including 12 buildings comprised of approximately 1 million square feet

**Contract Term:** 10-year ESPC with a portion of the guaranteed cost savings delivered in advance under a shared-savings financing vehicle



*"We are extremely appreciative of the creative contract NORESKO proposed. By providing a lump sum payment of \$250,000 at the program's outset, NORESKO has made a vital contribution to our educational infrastructure ... working with NORESKO is a way for us to reduce energy expenditures, without increasing our district's taxes ... NORESKO enabled solutions for our schools"*

James Fichera  
Director of Business Services  
Webster Central School District

NORESKO's creative financing option enabled the Company to present the Webster Central School District with a check for \$250,000 at the beginning of its energy conservation project. Under a 10-year Energy savings Performance Contract (ESPC), this accelerated shared savings payment enabled the school district to fund computer and technology project initiatives.

NORESKO identified, engineered and implemented energy conservation

measures for 12 separate facilities within the school district. The Company is responsible for project and construction management, incremental maintenance and financing for the entire project. In addition to its creative financing, NORESKO was able to provide through our demand side management agreement with the local utility an incentive of \$517,500 as a buy down to the total cost of the project.

From Fall, 1996 to Fall, 1997 NORESKO implemented energy conservation measures that included:

- Reducing overall energy consumption by 50% while maintaining or improving lighting quality through the installation of energy efficient lighting upgrades.
- Evaluating areas that would benefit from lighting control with occupancy sensors and installing them in storage areas, custodial closets and restrooms.
- Saving an estimated 58,447 kilowatt-hours by replacing old 7.5 to 40-horsepower hydronic pump and ventilating fan motors with high efficiency motors.
- Separating the domestic hot water heating function from boilers that also serviced the heating systems at three elementary schools and required 170 percent more energy to heat the same amount of domestic water than summer heaters at similar elementary schools.
- Installing new non-electric hot water heating coils for the central air handling units that provide ventilation air and hot water radiation to counteract heat losses at windows in two elementary schools.
- Installing an EMS in the high school and middle school, and commissioning (including recalibrating and reprogramming) the existing EMS controls at elementary schools that already had energy management systems. Installing night setback thermostats in the school district's maintenance garage. The EMS provides greater comfort while saving energy by optimizing operation of each building's heating and cooling system, minimizing morning warm-up time, providing more individual zone control with individually optimized boiler and chiller operation. The centralized controls of the EMS also maximize the maintenance staff's ability to respond to heating and cooling issues.

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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