

Education

South Brunswick School District

South Brunswick, NJ

Project Cost: \$967,000

Annual Cost Savings: \$101,000

Facility Description: Two public elementary schools

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



“The Brunswick and Cambridge schools took on new high-efficiency lives and increased comfort following NORESKO’s replacement of the outdated electric heating systems. The work was done with great care so there was little interruption of the normal school day.”

John Longo
Director of Buildings and Grounds
South Brunswick School District

Following the success of a lighting upgrade in all the schools of the South Brunswick School District, NORESKO developed and implemented additional energy conservation measures – valued at nearly \$1 million – for two elementary schools. The energy and operational savings as well as utility incentive payments accruing over a 15-year Energy savings performance Contract (ESPC) will pay for the capital improvements at the Brunswick Acres and Cambridge elementary schools.

NORESKO was responsible for project and construction management, training maintenance staff on the new system’s operation, and arrangement of tax-exempt municipal lease financing. Through an incentive program offered by the local utility, the district is effectively selling its conserved energy over a period of 15 years to the utility to help pay for the cost of the new equipment.

After completing an investment grade audit, NORESKO recommended a variety of measures implemented during the period from Spring 1999 to Fall 1999. These measures included:

- Converting the systems from electric to hydronic and installing gas fired boilers and circulator pumps, as well as hot water distribution piping and finned tube radiation with self-contained thermostatic controls. NORESKO also installed new unit ventilators with hot water coils, replaced heating/cooling unit ventilators where specified, and retrofitted air handling units.
- Constructing a new boiler plant in the Brunswick Acres School and renovating an existing storage area in the Cambridge School to house the new boilers.
- Providing all engineering and securing necessary state and local approvals.
- Training maintenance staff to operate the new equipment and providing first-year emergency service.
- Preparing and managing the procurement of additional building controls through a public bid. Though not integral to the project, the controls provide convenient building system monitoring through computerized automation.

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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