

## Contract Details

### Contract Type:

Energy Savings Performance Contract;  
Guaranteed Energy Savings;  
Renewable Energy

### Facility Size:

17 buildings, 1.5 million square feet

### Energy Project Size:

\$7.2 million

### Energy Savings:

\$463,000

## Summary

In 2003 Ameresco began a comprehensive energy savings and building improvement program (ESPC) by the Clarkstown Central School District representing over \$7 million of building improvements. Two students also received college scholarships as part of the Ameresco Better Schools Program. The District project is complete and operational.



Students young and old enjoy a more green friendly learning environment and two graduating seniors were awarded scholarships from Ameresco's Better Schools Program.



The Clarkstown Central School District received Energy Star Certification for thirteen of its fourteen schools and an exemplary rating after Ameresco completed the Energy Performance Contract.

## Customer Benefits

In 2003, Ameresco was awarded an energy savings performance contract for the Clarkstown Central School District representing over \$7 million of energy infrastructure improvements to enhance the learning environment for students and staff. Many of the improvements implemented were originally contemplated under a debt supported capital project. By moving these items to an ESPC, the District provided funding from guaranteed energy savings instead of increased school taxes.

The measures installed included lighting improvements, energy management systems, motors, new boilers, a fuel conversion, doors, roofs, cogeneration facility at the District's Natatorium and a photovoltaic array. Vending machine controls and lighting sensors respond to usage levels and power-down when not in use. Problematic and unsound roofs and doors were replaced and prevent drafts and leaks from disrupting the schools. Part of this project included a significant upgrade and renovation to the existing HVAC system at an elementary school.

This project was implemented in parallel with a large capital improvement at the District. Many of the subcontractors on this project also worked on the capital project. By moving the energy elements from their capital project, the District was able to afford greater improvements on the site. This project is complete and operational. Project performance was never compromised during any part of construction or on-going services and the project was completed on schedule.

Ameresco was the prime contractor for this project. Several of the Ameresco employees assigned to the Clarkstown project were instrumental in the completion of this project. After construction, Ameresco assisted the District in obtaining Energy Star Certification.

The Clarkstown Central School District also benefitted from Ameresco's Better Schools Partnership, which is a comprehensive school board strategy and management system designed by Ameresco to support school renewal during times of fiscal restraint and to promote engineering as a career of choice for outstanding students. Overall, the BSP provides wide-ranging benefits to students, school staff and taxpayers, as well as the environment. Two graduating seniors were each awarded a \$5,000 scholarship to put towards pursuing their science-related studies at the university level. Additionally, Ameresco installed a WeatherBug weather station along with supplemental curriculum software for students.

## Accolades

*"The primary focus of every school administrator should be to provide learning environments that are comfortable, safe, healthy and productive. We saw an opportunity to advance these goals through an ESPC without requiring tax payer financial support. Ameresco has completed this project with no interruption to school activities and has delivered everything they said they would. "*

*- Frank Stefanelli, Director of Facilities  
Clarkstown Central School District*



## About Clarkstown Central School District

Located just 25 miles north of New York City in New City, Clarkstown Central School District serves a community of 70,000. The District serves over 9,000 students and employs over 1,400 teachers and staff. In a mutually respectful partnership with the community, and within a secure, caring environment, the District strives to meet the unique needs of its students and motivate and enable them to be life-long learners and productive, ethical contributors to an ever-changing global society.

Learn more at  
[www.ccsd.edu](http://www.ccsd.edu)

## About Ameresco

Ameresco, Inc. is one of the leading global energy services providers. We deliver long-term customer value, environmental stewardship, and sustainability through energy efficiency services, alternative energy solutions, supply management, and innovative facility renewal strategies. The company has over 650 employees in regional offices throughout North America. Ameresco, Inc. has constructed billions in energy projects throughout the world.

Learn more at  
[www.ameresco.com](http://www.ameresco.com)



Among the electrical improvements, Ameresco installed smart vending machine controls to automatically power-down when not in use.

## Environmental Benefits

Through Clarkstown's partnership with Ameresco, the District reduced their carbon footprint.

The annual green benefits from this carbon reduction equal:

- ▶ the removal of 638 cars off the road
- ▶ the planting 712 acres of trees
- ▶ the powering of more than 406 average size homes

## Services Provided

The district is committed to energy conservation and believes it to be their responsibility to ensure that every reasonable effort is made to conserve energy and natural resources while exercising sound financial management. Clarkstown's commitment is further evidenced when in 2003 it entered into a Performance Based Self-Funded Energy Performance Contract with Ameresco. This program was subsidized by NYSERDA under its Program Opportunity Notice 700-02- Technical Assistance. Following a detailed analysis, 14 energy conservation measures were determined and implemented.

District-wide improvements included lighting upgrades and lighting sensors to increase energy-savings. An energy management system (EMS) was installed to monitor and control usages. Additionally, motors on mechanical equipment were replaced.

At South High School, solar panels were mounted to generate electricity.

At North High School, the steam traps and the exterior doors were replaced.

A cogeneration system was installed at Felix Festa Middle School.

A waste oil heater was installed at the Maintenance Shed.

The worn boilers were replaced at Lakewood, Woodglen and Felix Festa schools.

An overhaul at Congers Elementary school replaced the HVAC system.

The Birchwood, Bardonia and Congers schools each had their roofs replaced and insulated.

Also, vending machine controls were installed at all secondary schools to power-down the machines when not in use.

Since the implementation of Clarkstown Central School District's energy performance contract, thirteen of the schools in the district have qualified for Energy Star certification. The average EPA score of the district's facilities increased from 60 to 75 points since the completion of the Energy Performance Contract.



The Clarkstown Central School District is comprised of ten elementary schools, one middle school, two high schools and one K-12 school.