

CORL CREEK ELEMENTARY SCHOOL

STATE COLLEGE, PENNSYLVANIA, UNITED STATES

INTRODUCTION

Corl Street Elementary School was designed to meet the *State College Area School District's* goal of providing collaborative education through incorporation of technology, flexible learning areas, and sustainability. Abundant natural light, a healthy ventilation system, and walking and cycling paths make this facility an ideal place to learn for 400 kindergarten to fifth-grade students.

PROJECT DETAILS

Reliable Controls Authorized Dealer [Nexgen Automation](#) installed a building automation system during the construction and renovation of Corl Steet Elementary.

RC-WebView software operates on a central server in the State College Area School District office and is connected through Ethernet to Reliable Controls devices distributed throughout the Corl Street facility. The system controls mechanical equipment and regulates temperature, humidity, and CO₂ levels in each classroom. RC-Archive software downloads building operation data, which facility managers examine using RC-Reporter software for insight into system efficiency and optimization. Nexgen used the flexibility of RC-Studio to configure the new building automation system.

Individual heat pumps are installed in each classroom, with dedicated energy recovery units that maximize CO₂ control and minimize energy consumption. A central plant maintains water at an optimal temperature.

The school achieved LEED Platinum certification from the [U.S. Green Building Council](#), thanks in part to rooftop solar arrays that supply 20 percent of the facility's electricity. Building managers conserve water with low-flow toilets, bathroom sinks, and kitchen fixtures that use sensors for automatic shut-off. The school remained functional during construction and renovation.

Reliable Controls and Nexgen were pleased to provide a building automation system Corl Street Elementary School can depend on to maintain a healthy learning environment for its young students.

Interested in Reliable Controls technology for your next project?

Find an Authorized Dealer near you:

reliablecontrols.com/sales

Explore other Reliable Controls projects:

reliablecontrols.com/projects/profiles



MARKET SEGMENT
Education

PROJECT TYPE
New construction and retrofit

INSTALLATION TYPE
HVAC

TOTAL AREA
5,953 m² (64,086 ft²)

PROTOCOL
BACnet, Modbus

INSTALLED EQUIPMENT
6 MACH-Pro2™ controllers
47 MACH-ProAir™ controllers
3 MACH-ProCom™ controllers
5 MACH-ProPoint™ expansion modules
8 MACH-ProZone™ controllers
9 SMART-Space™ Controller devices
RC-Archive® software
RC-Reporter® software
RC-Studio® software
RC-WebView® software

INTEGRATED EQUIPMENT
Lochinvar boilers, Addison rooftop heat pumps

TOTAL SYSTEM OBJECTS
1,028

CERTIFICATION
LEED Platinum

RELIABLE CONTROLS
AUTHORIZED DEALER

 **SUNBELT**
CONTROLS

 **BACnet**

reliablecontrols.com