PROJECT PROFILE

SPRING CREEK ELEMENTARY SCHOOL

STATE COLLEGE, PENNSYLVANIA

OVERVIEW

Spring Creek Elementary School was designed to meet the State College Area School District goal of providing collaborative education through the incorporation of technology, flexible learning areas, and sustainability. The new building accommodates approximately 450 elementary students.

PROJECT DETAILS

Reliable Controls Authorized Dealer Nexgen Automation successfully installed a MACH-System™ during construction of the LEED Platinum-certified Spring Creek Elementary School in State College, Pennsylvania.

RC-WebView operates on a central server in the district office and is connected through Ethernet to MACH-System devices distributed throughout Spring Creek Elementary that control mechanical equipment and regulate the temperature, humidity, and CO₂ levels in each classroom. Building operation data is delivered to RC-Archive and managed in RC-Reporter, allowing operators to easily monitor energy consumption. Nexgen used RC-Studio to configure the entire 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 optimal temperatures.

The project received LEED Platinum certification and an Alternative and Clean Energy program grant from the State of Pennsylvania. Rooftop solar arrays supply 20 percent of the school’s electricity; compared to the old building, Spring Creek’s energy usage is reduced by 58 percent. The building also conserves water, thanks to low-flow toilets, bathroom sinks, and kitchen equipment, along with sensors that automatically shut off fixtures.

The State College Area School District Facilities department depends on the Reliable Controls MACH-System to facilitate a healthy learning environment for its young students. Reliable Controls and Nexgen Automation are pleased with the outcome of this installation.

To learn more about projects using Reliable Controls visit www.reliablecontrols.com/projects/overview