

Grand Valley Local Schools

Re-commissioning Achieves Energy Star Rating

Located in southern Ashtabula County, the Grand Valley Local School District's 122 square miles include the townships of Colebrook, Hartsgrove, Orwell, Orwell Village, Rome, Windsor and New Lyme. The District serves over 1,400 students and the campus is comprised of one building that includes an elementary school, middle school and one high school.

Challenge

Grand Valley has always been committed to providing learning opportunities which enable their students to achieve maximum growth and development. This also included a quality learning environment. Since the campus's commissioning in 2005, the District was faced with some challenges in providing a quality learning environment. Certain areas within the school building were uncomfortable and did not have consistent temperatures and the gymnasium had issues with humidity. The District knew something had to be done and looked to Gardiner for help.

Solution

Gardiner worked with Grand Valley to re-commission their building controls system for accuracy and efficiency. The controls to the HVAC equipment were re-programmed and discharged air was programmed to help reduce simultaneous heating and cooling energy waste. The HVAC equipment and building controls were optimized to run efficiently. Reset schedules and set-points were established to help the HVAC equipment come on when it needed to and for the appropriate spaces to be conditioned based on building occupancy during the school day and sporting events. Running the equipment only when they needed to, instead of 24 hours a day would save the district energy and prolong the life of the equipment.



Grand Valley Local Schools • Orwell, OH

The Grand Valley Local School District has a 244,000 sq.ft. facility comprised of one elementary school, one middle school and one high school all on one campus. The District is committed to providing learning opportunities which enable each student to achieve maximum growth and development.

Project Overview

- HVAC Systems & Equipment Optimization
- Building Automation & Controls Optimization
- Energy Star Award

Grand Valley Local Schools

Energy Star

Results

Since the completion of the re-commissioning project, the Grand Valley Local School District scored an Energy Star rating of 78, earning them the Energy Star Award from the Environmental Protection Agency (EPA). Having an Energy Star score of 75 or above qualifies for certification as an Energy Star building in the K-12 category. A rating of 78 percent means their school building is more efficient than 78 percent of K-12 school buildings nationwide. The EPA states that, "K-12 schools that are Energy Star labeled, cost 40 cents less per square foot to operate than K-12 schools without the Energy Star Label." Grand Valley Local Schools spends an estimated \$78,258 less than average (50) rated buildings.

“The Energy Star Award shows our community that we are not only working very hard as a School District to educate their children by earning “Excellent Ratings” from the State in education, but also working hard to spend their tax monies wisely when it comes to operating the PK-12 facility they provided for us back in 2005. The Energy Star Award provides us with a benchmark to keep improving on each year and to continually raise the bar on building efficiency”

Paul Byler, Facilities Manager



Annual Energy Savings

- Energy Star Score of 78
- \$78,258 Estimated Annual Savings

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