



Huron Valley School District

completes multiple energy-effective lighting projects with MTI Lighting Specialists.



Huron Valley School had to overcome the educational, vocational, and technological needs of their students. By implementing a completely engineered lighting design, Huron Valley School District took advantage of the opportunities and proceeded one step closer to their goals.

CASE STUDY A TEXTBOOK CASE IN LIGHTING UPGRADES

MTI LIGHTING SPECIALISTS PROVIDED THEIR SERVICES TO MEET AND ACHIEVE HURON VALLEY SCHOOLS GOALS

EFFICIENCY MEASURES:

The recent lighting upgrade of the Huron Valley School locations offers a textbook case in converting an entire lighting system to today's high-efficiency standards, a case in which great annual energy and dollar savings was achieved through replacing and retrofitting fixtures. The upgrade was undertaken to increase both the efficiency and effectiveness of the school's lighting system.

DETAILS OF EFFICIENCY MEASURES:

12,738 fluorescent fixtures were retrofitted with energy efficient electronic ballasts and T-8 lamps. A total of 916 incandescent lamps were retrofitted to compact fluorescents and 685 exit signs were either retrofitted with LED technology or replaced with new energy-efficient exit fixtures.

EXISTING LIGHTING SYSTEM:

With all of the locations combined, there were a total of 14,339 fixtures. The indoor lighting was basically a combination of fluorescent and incandescent lighting. Classrooms were primarily lit with fluorescent lighting, rooms having 4-lamp, 4-foot fluorescents or 2-lamp, 4-foot end-to-end fluorescent fixtures. Hallway lighting was a combination of standard 4-foot, 2-lamp fluorescent fixtures.

ENERGY SAVINGS:

With the energy effective lighting projects combined, the total amount of energy savings is **817,753 kWh** annually. This substantial amount of energy savings will help the Huron Valley School District meet their goals for the students.

STUDY DETAILS:

Number of Luminaires: 14,339
Kilowatt Hour Savings: 817,753 kWh
(With these kilowatt hour savings, Huron Valley School District saved enough energy to power 82.06 American homes for a year.)
Source: US EPA Kilowatt Equivalency Calculator



LIST OF SCHOOLS:

Apollo Elementary, Baker Elementary, Brooks Elementary, Country Oaks Elementary, Heritage Elementary, Highland Elementary, Johnson Elementary, Kurtz Elementary, Lakewood Elementary, Oxbow Elementary, Spring Mills Elementary, Highland Middle School, Muir Middle School, Oak Valley Middle School, White Lake Middle School, Lakeland High School, Milford High School, Administrative & Auxiliary Buildings.