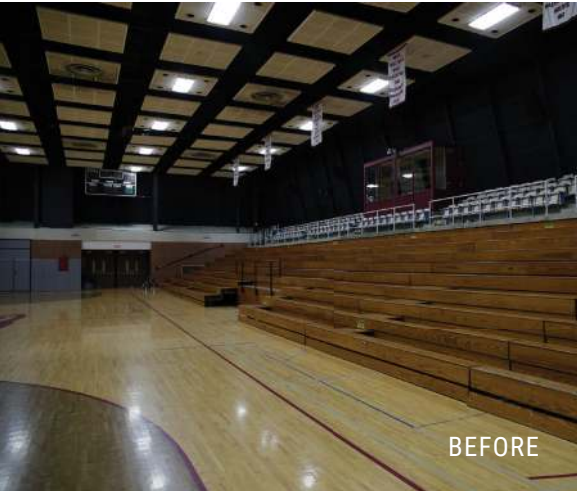# HELIOSENERGY

Concord University

BEFORE

OVERVIEW

Concord University located in Athens, West Virginia was facing an expensive, campus-wide, T8 ballast and lamp replacement due to aging equipment. The university sought to lower lighting energy expenses and eliminate costly maintenance expense. Further, they needed to substantially increase the level of illumination inside the classrooms, dormitories, student activity, and athletic facilities. Improving lighting levels across the many parking lots, pathways and other exterior spaces were also critical for increasing safety and security for the students, faculty, and staff.

CHALLENGE

- Cut energy consumption by 50%
- Cut maintenance expense by 90%
- Improve illumination in classrooms, dormitories and athletic facilities
- Enhance safety and security
- Increase lighting levels in the parking lots, walkways & other exterior areas

BEFORE

AFTER

AFTER

SOLUTION

- Complete LED retrofit and replacement
- Install cutting edge fixtures across all campus buildings
- Replace high wattage/ maintenance Metal Halide with efficient LED fixtures
- Install LED exterior wall pack and area lights with photocell sensors

RESULT

- Energy consumption reduced by 67%
- Maintenance expense reduced by 100%
- Dramatically improved lighting on the interior of campus buildings and across the exterior, dramatically increasing the comfort level and safety of students
- Upgraded fixtures that enhance the campus' beauty
- Increased illumination in key faculty and staff areas
- Going Green! campaign launched to acknowledge the transformation towards a more sustainable campus in partnership with HeliosEnergy

The Helios Energy Impact

| Increased safety and morale amongst students and staff | 10-year energy savings – **$1,560,192** | 10-year maintenance savings – **$558,914** | Total 10-year savings – **$2,119,106.30** | Total 10-year net savings – **$635,731** | **2,734,415** pounds of CO_2 saved annually! This is equivalent to removing **262** cars from the road, or not burning **139,564** gallons of gas each year! |