**CASE STUDY**

Riverview High School
Sarasota, FL

**+ Company**
Riverview High School is a four-year, (grades 9-12) comprehensive high school located on 51 acres in Sarasota, Florida. The new Riverview High School campus (532,000 sq. ft.) utilizes state of the art technology in all 7 Small Learning Communities classrooms, boasts the 2nd largest auditorium in the city with a seating capacity of 1,100, a new gymnasium with a seating capacity of 2,200, five art classrooms, seven music classrooms and all capturing the beauty of the river that brought the high school its name. Riverview High School holds the distinguished Arts Achieve Award from the Kennedy Center and the Florida Alliance for Arts Education. This award represents achievement of a highly comprehensive and sequential program in arts education.

**+ Challenge**
After the school opened, further expansion was subsequently approved for the design and construction of a state of the art technology center. The design engineers advised the school team that with extensive computer loads connected in the system that significant harmonics would be inevitable. The challenge was designing a system that would deliver power quality and by design, mitigate any potential harmonics generated by the electronic loads in the system.

**+ Solution**
After an exhaustive search for solutions, it was determined that PQI provided the best solution with the application of ultra energy efficient e-Rated®, harmonic mitigating Distribution TransFilters™ in the system. PQI was also allowed to provide their expertise to the electrical system design which resulted in a value engineered solution for the school.

**+ Impact**
The application of PQI's ultra-high efficiency e-Rated®, harmonic mitigating Distribution TransFilters™ in the system resulted in an energy efficiency of 99.2%, an increase of 6.7% over the efficiency of the proposed K-1 transformers.

POWER QUALITY INTERNATIONAL is the industry leader in the development, design and manufacturing of harmonic mitigating and energy-efficient transformer technologies. With a passion for solving problems and helping customers achieve power quality and energy efficiency, PQI delivers cost-effective solutions that ensure power quality and energy efficiency for the life of their customers facilities.