



# Case Study

## Manatee Community College Bradenton, FL



### PROJECT HIGHLIGHTS

#### Environmental Benefits

Under measurement

#### Capital Costs

\$1,939,033

#### Annual Savings

\$170,589

#### Schedule Compliance

Completed on time

#### Budget Compliance

Completed within budget

### PROJECT DESCRIPTION: Energy Savings Performance Contract

**Challenge:** In 2000, ConEdison *Solutions*, through its subsidiary, BGA, Inc., was selected through a competitive process by the District Board of Trustees of Manatee Community College to develop, design and install a variety of energy efficiency measures under a Guaranteed Energy Savings Performance Contract.

### PROJECT SCOPE

**Solution:** A thorough site energy audit was performed. The information gathered from the audit was modeled and a project was developed. The college accepted the project and an engineering design, construction management, mechanical construction, commissioning, training, and ongoing measurement and verification plans were drawn up and put into motion. Third-party financing was also arranged to complete the performance contract offer for the college.

### ENERGY CONSERVATION MEASURES

#### Lighting Retrofit

Replaced existing lighting system with energy-efficient metal halide, fluorescent and incandescent fixtures that improved operating performance and lowered energy consumption.

#### Variable Frequency Air Drives

Retrofitted three constant air handling units for the gymnasium to VAV (variable air volume). The variable frequency drive offers a more energy-efficient method of varying air volume by controlling the frequency of the electric power serving each motor.

#### Airside/Electrical Renovation

Replaced the entire cooling, heating and associated electrical systems in the Educational Complex with energy-efficient systems that eliminated code deficiencies and reduced mounting deferred maintenance.