



Case Study

**City of Winter Haven
Chain O'Lakes**
Winter Haven, FL



PROJECT HIGHLIGHTS

Environmental Benefits

Under measurement

Construction Costs

\$1,645,712

Annual Savings

\$170,589

Schedule Compliance

Completed on time, 2002

Budget Compliance

Completed within budget

PROJECT DESCRIPTION: Guaranteed Utility Savings Performance Contract

Challenge: The Winter Haven Chain O' Lakes facility is a 58,000 square foot county recreation center. The complex is composed of several areas that include a gymnasium, two theaters, convention rooms, meeting rooms, and administrative areas. Adjacent to the recreation center are an Olympic sized lap pool and a separate Olympic diving pool. The Cleveland Indians utilize several baseball fields and buildings located within the grounds of the complex for their spring training camps. Energy Conservation Measures (ECMs) concentrating on the recreational center are implemented.

PROJECT SCOPE

Solution: ConEdison *Solutions* through its subsidiary, BGA, Inc., utilized the Guaranteed Utility Savings Performance Contract and its internal skill-sets, including project development, site energy audit, energy modeling, finance arrangement, project management, engineering design, construction management, mechanical construction, lighting retrofit construction, commissioning, training, and ongoing measurement and verification, to complete the project on time and on budget.

ENERGY CONSERVATION MEASURES

Lighting upgrade

- Installed a comprehensive lighting system retrofit (lamps and ballasts)
- Installed occupancy sensors

Mechanical upgrades

- Installed Variable Frequency Drive (VFD) on cooling tower
- Installed a Meter on cooling tower for make-up water
- Installed Heating Ventilation and Air Conditioning upgrades

Water efficiency

- Replaced leaking underground pool piping
- Replaced pool filtration and accessories
- Reclaimed water for irrigation