Case Study

City of Winter Haven
Chain O’Lakes
Winter Haven, FL

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.

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

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