



FPL Services.

Case Study

Florida Department of Corrections guaranteed to save over \$17 million Conserves energy and water by partnering with FPL Energy Services

The State of Florida Department of Corrections (DC) in 2002 set out to lower energy costs and reduce maintenance time and expenses by upgrading old equipment without disrupting the prison population. By partnering with FPL Energy Services, Inc. (FPLES), the DC safely and effectively upgraded aging facilities and lowered operating and maintenance costs. Over the course of Phase 1 and 2, the DC is guaranteed to save over \$17 million through the energy efficient improvements and water conservation measures.

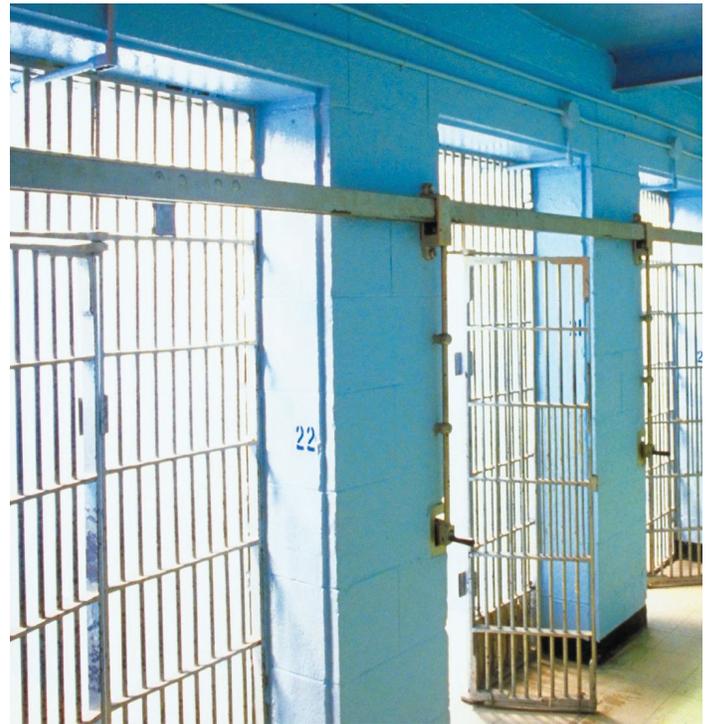
Project Scope

The Florida DC was challenged to maintain the excellent safety and security reputation they enjoy, while maintaining old buildings and operating with reduced budgets. Many of the agencies facilities were subject to changing environmental restrictions, including water and waste water treatment operations. Despite the need for improvements, securing capital funding was a challenge.

Solutions

Provide an energy conservation analysis to improve facility operations and reduce energy and water consumption. Analysis included:

- » High efficiency lighting
- » Water fixture upgrades
- » Water conservation and control measures
- » Efficient air conditioning systems
- » Electrical distribution, load control and metering
- » Elimination of aging laundry and cooking steam systems



Results

FPLES effectively reduced energy usage and cut operating expenses at DC correctional facilities with no capital dollars. Facilities included inside offices, outlying building and jail cells without disrupting the prison population.

- » Savings exceeded the contract guarantee by more than \$10,000 in the first four years of Phase 1
- » Savings exceeded the contract guarantee by more than \$115,000 in the first year of Phase 2
- » Phase 3 was completed in 2011 and will continue to improve operations state-wide

Benefits

Saving Scarce Resources

Every kWh the DC saves, reduces carbon emissions and helps protect the environment. In addition to the kWh saved, the new water conservation measures alleviate the need for increased water supply at various correctional institutions.

No Up-Front Costs

The DC partnered with FPLES to implement turn-key energy and water conservation upgrades for their facilities. Through a performance contract, the DC was able to fully finance all upgrades for energy-efficient equipment and FPLES guaranteed the savings over 10 years.

As an industry leading Energy Services Company (ESCO), FPLS offers performance based guarantees to help maintain or reduce O&M budgets, while upgrading facilities. For more than 20 years, FPLS has never missed a savings guarantee.

Safety and Security

For prisons, security is a top priority. From the audit stage to the final installations, FPLES accommodated each warden's specific needs to maintain safety precautions within the jails. FPLES team members were prescreened by DC, worked fewer and longer shifts, limited the downtime in critical areas, and inventoried every tool coming in and out of the facilities daily.



Water conservation measures are projected to save over \$1.6 million per year



Lighting efficiency measures are projected to save over \$330,000 per year

“It’s very difficult to work in an institutional environment. We found that the work that was done was what we needed. The process of people coming and going, clearances and tool control all went very smoothly. We were very pleased with FPL Energy Services.”



— Marta Villcorta
Director of Region 4
Florida Department of Corrections

FPL Services. Where proven meets possible.

Visit www.FPL-Services.com/ESCO or call 1-888-706-5685

