

Case Study

The School District of Indian River County reduces energy consumption while improving infrastructure

FPL Energy Services, Inc. (FPLES) partnered with the School District of Indian River County to develop a customized turn-key solution that reduces costs, minimizes risk, and benefits their bottom line. These improvements are estimated to save the District nearly \$10 million over the 16 year performance period.

Project Scope

Our team worked with the District to perform a facility walk through and comprehensive analysis of existing equipment, operations and maintenance issues, and energy costs. Our team examined four main potential areas for savings - lighting, HVAC, controls, and water. Multiple chillers were evaluated for efficiency improvements and potential consolidation at Vero Beach High School, the Performing Arts center, and the Freshman Learning Center.

Solutions

Energy conservation measures included:

- » Lighting and Controls
- » Water conservation
- » HVAC and Controls

FPLES designed and constructed a new Chiller Plant that is located in FPL utility territory in order to take advantage of a beneficial Time-of-Use rate. The High School received two new water-cooled chillers, placed in FPL's service territory, which then provide chilled water to the High School and two other facilities. This combined use Chiller Plant eliminated the need for the existing chillers at the respective buildings, which were old and failing.



Results

The project reduces the energy intensity of the campus (carbon footprint), reduces the risk from failing critical equipment, improves indoor air quality and classroom lighting levels, and minimizes the excessive costs and distractions caused by a multitude of failing aged infrastructure.

Each year, the District is guaranteed to save at least:

- » 4.5 million kWh
- » 26 million gallons of water
- » \$500,000

Benefits

Saving Scarce Resources

Every kWh the District saves reduces carbon emissions and helps protect the environment. In addition to the kWh savings, the new Chiller Plant creates an opportunity for the District to consolidate chilled water production and avoid the capital expenses that come with maintaining multiple separate HVAC systems. This further reduces carbon emissions and frees up capital to redirect to other areas.

Furthermore, by addressing problems with HVAC systems through a performance contract, the District avoids the future capital expense related to repairing or replacing aging equipment.

No Interruption to Normal Operations

From analysis to final installation, our team scheduled work to limit disturbances to normal operations and avoid downtime in critical areas. Throughout installation, the District continued to operate normally with no disruption to class schedules.

No Up-Front Costs

By using a performance contract to implement conservation upgrades and construct a new Chiller Plant, the District was able to fully finance all upgrades for energy-efficient equipment and FPLES guarantees the savings over 16 years.

As an industry leading Energy Services Company (ESCO), FPLES offers performance based guarantees to help maintain or reduce O&M budgets, while upgrading facilities. For more than 30 years, FPLES has delivered projects on time, on budget, and has never missed a savings guarantee.



The combined use Chiller Plant replaced old, failing chillers and takes advantage of utility Time-of-Use rates

FPL Energy Services has provided energy efficiency, water conservation, and performance contracting solutions to state, municipal, and federal government and business clients for more than 30 years, with a commitment to excellence in the implementation of all performance contracts, large and small. We partner with each customer to first assess and identify specific needs, to design and build custom energy efficient solutions, and to guarantee the energy savings.

FPL Energy Services. Where proven meets possible.

Visit [FPLES.com/ESCO](https://www.fples.com/ESCO) or call 1-888-706-5685



FPL Energy Services, Inc. (FPLES) and FPL Services, LLC (FPLS) are unregulated subsidiaries of Florida Power & Light Company (FPL). Projects within FPL's electric utility service territory are provided by FPLS and not FPL. Projects outside of FPL's electric utility service territory are provided by FPLES and not FPL.