

CASE STUDY

Lighting and Control System Retrofit Project for WTP

December 2012

Project Overview

As part of Honeywell's Performance Contract teaming agreement, a luminaire and occupancy sensor project design and upgrade installation was implemented at PRASA WTP, Caguas, Puerto Rico. The upgrade was designed to improve the total cost of ownership of the facility's lighting system. A pre and post burn hour analysis was conducted throughout the facility to determine lighting control system solution energy impact. Light levels were evaluated interior and exterior zones to ensure the areas met the Illuminating Engineering Society of North America (IESNA) lighting standards.

"The Envirobrite and Accuity Brands Lighting Retrofit solutions and control systems are ideal for retrofit projects and maximize our customers achieve greater energy savings than traditional luminaire upgrade solutions"

- Fernando Sosa

The Challenge

Transform the Water Treatment Plant facility and reduce dependence on non-renewable energy. Transcon's goal was to design and install a lighting system that used as little energy as possible. Properly designed lighting control systems are key to achieving significant energy savings and reaching their energy efficiency goals. In addition, Transcon identified the need to take advantage of the significant over lit selected spaces and ensure that building occupants are comfortable and productive in their working environment.

The Solution

Transcon Lighting System luminaires and control system solutions integrate the Sensorswitch's LT lighting control and Envirobrite luminaire retrofits for interior and LED Exterior luminaires that maximizes the use of energy and enhances visual comfort.



Project Green Facts

Lighting and Control System Retrofit

• Square Feet	100,000
• Lighting Fixtures	716
• Energy Cost Savings	\$98,746
• Power Savings	67,934 kW
• Energy Savings	466,079 kWh

Numbers reflect annual project savings based on prior energy consumption, local electric rates and specific usage hours.