



CASE STUDY

Lighting and Control System Retrofit Project

November 2013

Project Overview

As part of Transcon’s Full Turn key solutions, a luminaire and occupancy sensor project design and upgrade installation was implemented at Hospital de la Concepcion, San German, 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 room by room to ensure the areas met the Illuminating Engineering Society of North America (IESNA) lighting standards.

“The Envirobrite Lighting Retrofit solutions and Lutron’s 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 Hospital 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 overlit 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 Lutron’s Tri-Pack lighting control and Envirobrite luminaire retrofits that maximizes the use of daylight, saves energy and enhances productivity in the workplace



Hospital de la Concepcion, San German PR

Project Green Facts

Lighting and Control System Retrofit

- Square Feet 207,000
- Lighting Fixtures 2,377
- Energy Cost Savings \$308,741
- Power Savings 165.2 kW
- Energy Savings 907,932 kWh

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