

CASE STUDY

INDIANA DEPARTMENT OF CORRECTIONS LIGHTING RETROFIT and UPGRADE

Indiana State Prison, located in Michigan City Indiana, was first opened in 1860. It's an minimum/maximum security prison. With a daily population of approximately 2,207. Michigan City is known for having housed the famous inmate John Dillinger during its tenure.

The Westville Correctional Facility, located in Westville, Indiana, is a state-operated prison for adult males and was opened as a prison in 1977. The facility contains sections of all three levels of security. The average daily population is approximately 3,100.



THE CLIENT CHALLENGE

Indiana Department of Corrections were in need of updated lighting and to accomplish significant annual energy savings. Two facilities, with over 2.5 million sq. ft. of buildings had high security levels and some interesting challenges in accomplishing their energy and lighting needs.

RTS performed an audit of two facilities, in over 50 buildings at the two campuses. RTS evaluated vast numbers of variables such as how the space will be used, amount of day-light, load potential, dimming, lamp color, initial cost, and cost to maintain moving forward.

THE LIGHTING SOLUTION

The lighting project was installed at two facilities in Northwest Indiana in over 50 buildings at the two campuses. Over 17,000 lighting fixtures were involved in the lighting upgrade. The lighting

upgrade included retrofitting existing fixtures with low wattage lamps, and compact fluorescents. A large portion of the project also included installing new fixtures to replace the older HID lighting as well as new high efficient fixtures to replace existing older fixtures.

THE RESULTS

The project was a success. There were many obstacles that needed to be addressed before the installation could begin in such a high security facility. All the installers, tools and materials had to go through a rigorous screening process before the start of work each day. Despite the obstacles, we were able to install a multimillion dollar lighting project in 13 weeks. The project reduced the energy costs by \$275,000 annually, and reduced the peak demand by nearly 900 KW.

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