



NORTHERN STATE PRISON

Newark, New Jersey



LIGHTING CASE STUDY

FSG Performed a full service LED Lighting upgrade for both interior and exterior lighting.

CHALLENGE

Northern State Prison is a state run prison located at 168 Frontage Road in Newark, New Jersey for male offenders that houses over 2,600 inmates. It is operated by the New Jersey Department of Corrections. Updating lighting in any correctional facility requires intense coordination and scheduling. Fixtures are usually vandal resistant in design, which can lengthen the typical times required to retrofit fixtures, and require design knowledge when replacing them.

SOLUTION

FSG updated the lighting throughout the facility including housing areas, offices, back of house, warehouse space, maintenance shops, kitchens and dining areas. Exterior site lighting inside and outside the perimeter was also updated.

RESULT

The new lighting system was installed with no disruption to prison operations. Outdoor lighting was upgraded to new fixtures with 100,000 hour life, versus the 24,000 hour life found on the existing lighting system. This greatly reduced maintenance costs going forward. In addition to substantial maintenance savings electric costs were reduced over \$217,000.00 a year. The project also received a rebate from the PSE&G Direct Install Program.

Owner

N.J. Department of Corrections

Contract Type

Lighting

Contract Amount

\$468,597.00

General Contractor

Facility Solutions Group

Electrical Contractor

Spark Electric

Energy Firm

PSE&G

Cost Savings

\$217,000.00

Number of Fixtures

Replaced

4,625

