

Project Profile

ROCK & ROLL HALL OF FAME

Cleveland, OH



The Rock and Roll Hall of Fame is a museum and hall of fame located in downtown Cleveland, Ohio, on the shore of Lake Erie. The museum is a multistory iconic structure made up of galleries that document the history of rock music as well as the artists, producers, engineers, and other notable figures who have influenced its development.

Facility Type:

Museum and entertainment venue

Square Footage:

150,000 SF

Technologies:

LED direct wire tubular and PL lamps

of Fixtures:

More than 1,050

Savings:

\$13,000 in annual energy and maintenance savings



Situation

The unique seven level building, designed by I.M. Pei and dedicated in 1995, required updates to several important infrastructure systems. Both Spectrum Energy and Evans Energy were engaged to recommend specific improvements and upgrades. Like most museums, the Rock & Roll Hall of Fame relies on both public and private funding to maintain their facilities. This means funding budgets are tight, requiring mechanical upgrade projects to have a strong ROI. For this reason, energy savings from the new LED lighting system was to be leveraged to help offset the longer-term payback upgrades.

Solution

Eco Engineering was selected to design a turnkey lighting system upgrade for the non-gallery areas of the museum including all common areas, offices, mechanical rooms, storage, and workshops where gallery displays are constructed. Fluorescent tubular and PL lamps in existing fixtures in these areas were replaced with LED technology.

- **Demand Reduction**
Approximately 34 kW peak demand reduction projected.
- **Annual Consumption Savings and Environmental Benefits**
Estimated at 124,656 kWh annually – the equivalent of removing 22 combustion engine passenger cars from the road annually.
- **Reduced Costs**
The implementation of the new lighting system is expected to deliver approximately \$831 in monthly energy costs savings and another \$277 in monthly maintenance expense reductions. The total annual savings will exceed \$13,200 per year.