



FES International, Inc.

HOTELS AND CASINOS

The Bellagio Hotel & Casino



Challenge

FES International was asked to investigate the cause of several serious operational problems at the Bellagio Hotel & Casino in Las Vegas, Nevada. These problems included high cost of power, corruption of data in the computer and slot machine networks, poor video quality at the surveillance system monitors, and erratic electronic performance within the facility.

FES International uncovered two significant power quality issues that were causing these network and video quality problems: high levels of voltage distortion and neutral-to-ground voltage at these sensitive electronic loads. (Power system and load incompatibility problems are common with nonlinear loads.) FES International was next asked to find a solution and prepare a detailed proposal.

Solution

FES International applied its engineered solution, which was guaranteed to resolve both voltage distortion and neutral-to-ground voltage issues. The application ensured total system performance from panels to branch circuits and up through the distribution transformers. The solution resolved operational and system incompatibility issues and met applicable IEEE standards. Upon installation, all operational issues were eliminated.

Impact and Results

With annual savings of approximately \$241,381 and an installed cost of \$363,956, payback was achieved in 1.5 years with a rate of return of 66%.

Client Profile

The Bellagio Resort & Casino, Las Vegas, is part of the MGM Mirage Group, one of the world's largest hotel and casino operations. Their family of resorts includes Aria, Circus Circus, City Center, Excalibur, Luxor, Mandalay Bay, MGM Grand, Monte Carlo, New York-New York, The Mirage, and Vdara.

Promises Delivered:    

To learn more about this project, please contact FES International.

FES International designs and engineers fully customized power system solutions in order to improve the performance and efficiency of the entire electrical distribution system. Contact us today to fully optimize your distribution system: **(727) 478-7288 or www.FES-US.com**

CASESTUDY