



FES International, Inc.

COMMERCIAL BUILDING

Bank of America



CASESTUDY

Challenge

Like most Fortune 500 companies, Bank of America’s business expansion required continuous growth in supporting information technology, integration of building controls for greater efficiencies, and ongoing support for expanding data processing and call center needs. In particular, Bank of America’s 30-story, 70s-era corporate headquarters building in Charlotte, North Carolina, had a low-voltage distribution infrastructure that was nearing end of life. The 24/7 facility’s aging power system required renovation in order to make it 100% compatible with connected loads.

After completing extensive building surveys, FES International was asked to maximize efficiency and power quality as part of the renovation strategy for the building’s power system.

Solution

Implementation of the FES International Power System Optimization Plan resulted in a new low-voltage distribution system design. This solution reduced nonlinear load-generated “penalty losses” in the distribution system, increased system and load energy efficiencies, improved system power factor, and reduced voltage distortion at the 480-volt loads.

Impact and Results

FES International’s solution achieved 100% compatibility of the connected loads with the building’s power system, and the new configuration reduced power requirements, resulting in an annual savings of \$170,000.

The renovation project also dramatically reduced the building’s carbon footprint while achieving LEED Gold™ certification, the first renovation project in North Carolina to achieve this distinction.

Client Profile

Bank of America is one of the world’s largest financial institutions, serving individual consumers, small- and middle-market businesses, and large corporations with a full range of banking, investing, asset management, and other financial and risk management products and services. As part of its \$20 billion commitment to support the growth of environmentally sustainable businesses that address global climate change, Bank of America has committed \$1.4 billion to meet the U.S. Green Building Council’s LEED® certification requirements in all new construction of office facilities and banking centers.

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