



# Electrical



## DESIGN & EXECUTION

BME: For services, maintenance, construction, or that “out of the ordinary” project, BME has proven solutions and exceptional service. Our staff is dedicated to earning your confidence from design to completion with the utmost integrity & honesty.



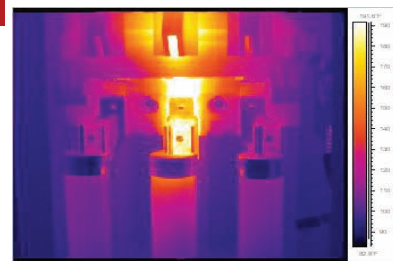
## ELECTRICAL SERVICES

- Design/Build
- Energy Saving Solutions
- New Construction & Tenant Finish/Remodel
- Generator Installation
- Lighting--Interior & Exterior
- Bucket Truck Services
- 24 Hour On Call Service & Troubleshooting
- Preventive Maintenance
- Thermography & Infrared Scanning
- Panel Balancing
- Machine Moves & Power Hook Up
- Harmonics Solutions
- UV Light Install & Service
- Circuit Tracing & Identification
- Controls & Energy Management
- Solar Systems: PV & Solar Thermal
- NFPA 70E Compliance Consulting

## PREVENTIVE/PLANNED MAINTENANCE

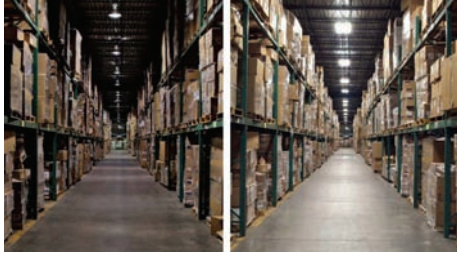
Nearly half of all electrical failures could be prevented with scheduled maintenance! Every customer’s business and equipment is unique. Let BME create a maintenance program specific to your needs.

- Thermographic analysis of electrical equipment to diagnose defects and find equipment ready to fail.
- Clean & Check connections in electrical equipment to minimize resistance and prevent arc-faults.
- Panel/Phase Balancing—Prevent damage to costly equipment from phase failure caused by unbalanced loading.
- Scheduled Lamp & Ballast replacement.



Energy Savings Solutions on Back

# ENERGY OPPORTUNITIES AND SUSTAINABILITY



Before

After

## Lighting Retrofit/Replacement

Energy efficient lighting produces better quality light while saving the consumer 30% to 50% of the energy used by conventional lighting. BME can design the most energy and operationally efficient system to meet your needs as well as provide information on tax credits and available rebates.

## Automatic Standby Generators

Automatic generators are a smart investment for your business. By automatically restoring power within seconds of an unexpected outage, standby generators insure you will not lose money and valuable resources such as heat, light and the use of manufacturing equipment. BME can install & service a generator suitable for our customer's needs.



## Renewable Energy

Renewable energy from the sun and wind is freely delivered to each of us every day and offers the opportunity for economic and environmental improvement. BME's professionals can design and install your renewable system to harness that energy as well as provide information on tax credits and available rebates.

## HVAC Modifications

The heating and air conditioning system is the largest single user of energy in most buildings and often contributes to over half of a building's annual energy consumption. BME's team of professionals can identify energy conservation opportunities and recommend solutions through controls, modifications, and products that will not only improve efficiency but also the quality of air.



$$PF = \frac{P}{P_{app}}$$

$$500KW \times .691 = 345.5$$

## Energy Analysis and Correction

Due to motors, transformers, and lighting, most buildings are not utilizing 100% of the energy for which they are being billed. BME will review your utility rate structures to determine how you are currently purchasing or buying energy and where the energy reduction opportunities exist.

## Building Automation Systems

Building automation systems can save energy through control of lighting, heating, and air conditioning systems. BME can design a system that will achieve optimum energy savings.

## Other Energy Conservation Opportunities

- Motion sensor installed in areas periodically or seldom used can save up to 50% of consumption.
- Daylight controls turns off lights in areas covered by the natural light of the sun.
- Intelligent panels installed with building automation further reduces consumption.
- UV Lighting installed in HVAC units saves the consumer money by reducing maintenance costs and improves the efficiency of the equipment by cleaning and improving the air quality.

