



HAVE A FUNCTIONING  
COMMERCIAL ELECTRICAL  
SYSTEM



# EMA LICENSE APPLICATION

Before any electrical wiring, apparatus or fitting is put into a facility, it is necessary to have the [EMA license application](#) approved. The Energy Market Authority is responsible in ensuring that the electrical system functions well. For commercial use, the limit is 45 kVA.

# ELECTRICAL SYSTEM STUDY

Investigations of engineering analyses constitute an **electrical system study**. Depending on the scenario, the power system of the facility has to be efficient and reliable. The scope of the study includes electrical distribution assessment, short circuit analysis, power factor correction, harmonic analysis, and load flow among others. At different intervals during operations, new installations or expansions are conducted

# LIGHTNING PROTECTION DESIGN

The presence of **lightning protection design** is suitable for a building. From the total value of the place, only one percent is allocated for it. Since it is very affordable, there is practicality than having expensive generator, security system, and specialty lighting. As part of the plan for mitigation of hasard, measures for protection against lightning are on the rise. Structures that are made of LEED and green need sustainability.

# ELECTRICAL PREDICTIVE MAINTENANCE

In performing **electrical predictive maintenance**, professional electrical engineers do an assessment of the power system. From the present system, a visual inspection is conducted. There is identification of defects, deteriorations, weaknesses, deficiencies, and hazards. An infrared inspection is done through a specialised camera. Anomalies that are not seen with the normal eye become visible.

