

## C816455 : MAJOR INDUSTRIAL ENGINEERING

KEY WORD:

KANTTORN KENGPOL : CONTROL OF ELECTRICAL ENERGY CONSUMPTION  
IN A HOTEL CASE STUDY : MEDIUM AND SMALL SIZE HOTEL . THESIS  
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The purposes of this research are to study the appropriate methods for electrical saving in medium and small size hotel . The results of this research are summarized as follow . There are 2 important factors for control the electrical consumption .

1. Electrical equipment utilization ; Generally , the users always ignore the equipment maintenance . Then , they should inspected and maintained the equipment such as

- Operated number of cooling tower for released heat equal to cooling ability of chiller
- Cleanning cooling tower
- Cleanning condenser parts in split type air conditioner
- Adjusting tap of the transformer for adjusting secondary voltage and reduce iron loss

2. Electrical equipment and accessories ; In generally , the users are used low efficiency and high loss equipment . These problems can solve by following method ;

- Using Compact Fluorescent lamps instead of Incandescent lamps
- Using energy saving fluorescent lamps instead of norminal fluorescent lamps
- Using low loss ballasts instead of iron core ballasts .

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