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SUDARAT PRECHARONASET : A STUDY ON ELECTRICITY CONSUMPTION AND  
MANAGEMENT OF THE INDUSTRIAL INSTITUTE OF TECHNICAL COLLEGE ACCORDING TO  
THE ENERGY CONSERVATION PROMOTION ACT B.E. 2535. THESIS ADVISOR : SOMPONG  
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This research aims at the study on electricity consumption and management of the industrial institute of Saraburi technical college in order to analyze the trends for electrical energy saving according to the energy conservation promotion act B.E. 2535.

It was found that the industrial institute used a total amount of 853,660 kwh electrical energy per year. The highest percentage namely 54 % was used for the air – conditioned systems, 25 % for electrical lighting systems, and 21 % for mechanical equipment. The average index of electricity consumption was 223.85 kwh annuals per capita. The average rate for electricity was 2.26 baht per kwh. The average rate of illumination was  $10.86 \text{ w/m}^2$ , and the average rate of power consumption for refrigeration was 2.84 kw per ton. The trends for electrical energy saving were accepted by the administrators concerned. The reductions were as follows: The decrease for the air – conditioners ‘ working hour, maintenance and the capacitor installation of the transformer, the light reflector installation, using high effective air – conditioners, and using electronics ballast respectively.

This study concentrates on energy saving in air conditioning lighting and mechanical equipment at industrial institute of Saraburi technical college according to specifications recommended by Energy Conservation Promotion Act B.E. 2535.