

# **INTERGRATED DESIGN STRATEGIES IN ENERGY-EFFICIENCY OF INDUSTRIAL BUILDINGS IN TROPICAL CLIMATE**

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## **ABSTRACT**

The paper is composed of two portions in organization: energy usage surveying and gathering data in existing industrial buildings in Thailand, and significant design strategies integrating with innovation. The state of research is conducted on tropical climate of Thailand weather condition applying to the industrial buildings. The relationship between working location and the sensation of human comfort factors for different occupants and configuration of buildings is considered. The results of simulation to find the most appropriate performance are presented by consisting in bare-based case, heat gain reduction case, noise reduction case, case of daylight and lighting and case of natural ventilation flow. It is the hope that the results will lead to integrated design strategies and guidelines for energy-efficient industrial building design in tropical climate in spite of improving comfort surroundings in sustainable industrial buildings.