

綠建築指標應用於生技廠房架構之研究

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摘要

The factory area of Taiwan's science parks continues to increase. The result of factory expansion and development had caused some environmental issues, such as environmental load and greenhouse gas emissions continue to increase, which are the subjects to be concerned and discussed by many professionals. The environmental impact is the key issue of the development and operation of the present Science Park.

This study uses the nine evaluation indicators of the Taiwan Green Architecture to study the Chunan Science-based Industrial Park plant buildings for energy saving and carbon reduction. The assessment framework for the plant building is established first. The factors in the nine indicators to be used in the framework are determined through literature reviews. Then, the AHP method is used to determine the relative weights of factors in the framework. Based on the relative weights, the final energy saving and carbon reduction score for a plant building can be obtained after scoring each factor by the expert panel. Two plant buildings are chosen to study its energy saving and carbon reduction capability.

關鍵字：Science-based Industrial Park plant, the Green Architecture assessment indicators, the analytic hierarchy process