

SBS5498 Final Year Project 2 (Applied Research Project)

<http://ibse.hk/SBS5498/>

Suggested Topics from Supervisors (2018-2019)

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Title:	Study of humidity control application of residential buildings in Hong Kong
Description:	The high humidity weather in Hong Kong affects the thermal comfort, especially in the residential buildings which usually do not install the central humidity control system. This study will review the current humidity control application for residential buildings to investigate its features and development trends.

Title:	Study of air-conditioning usage habit for air-conditioning in residential buildings in Hong Kong
Description:	The usage habit of the air conditioning in residential buildings reflects such information including the environmental awareness, energy efficiency level, the thermal comfort tolerance, etc. This study will investigate the residential building air-conditioning usage habit to discover the information and the influence.

Title:	Study of thermal storage technology and application in Hong Kong
Description:	Thermal storage application can shift the load (for example, cooling load) from on-peak period to off-peak period to save operation cost. However, due to short of land supply and other obstacles, this application isn't widely applied in Hong Kong. This study will review the technology of the thermal storage and the application in Hong Kong.

Title:	Study of the cooling load calculation methods
Description:	Cooling load calculation is a basic and critical issue for the air-conditioning design. This study will compare several different cooling load calculation methods, including the calculation speed, accuracy to evaluate the major application of these methods.

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Title:	Study of green building development in Hong Kong
Description:	Green buildings can provide various benefits environmentally and economically. This study will investigate the current situation and trends of green building development in Hong Kong to improve the green building application.