

MEBS6020 Sustainable Building Design

<http://me.hku.hk/bse/MEBS6020/>

Assignment 02: Assessment of Sustainable Building Project

The owner of a hotel building in Hong Kong is planning to improve the built environment and operational efficiency of the property by applying green building assessment. Two assessment methods are being considered including BEAM Plus and LEED. As the green building consultant of the project, you are required to study the feasibility and provide professional advice to the client on the assessment process and important requirements.

Hotel Icon (Hong Kong) 唯港薈 [https://en.wikipedia.org/wiki/Hotel_Icon_\(Hong_Kong\)](https://en.wikipedia.org/wiki/Hotel_Icon_(Hong_Kong))

Address: 17 Science Museum Road, Tsim Sha Tsui East



Figure 1. Location map of the hotel (source: <http://hk.centamap.com/>)

You should examine the two assessment methods (BEAM Plus and LEED) and identify suitable system(s) for application with consideration of the assessment criteria, potential credit points, and strategy to improve the built environment and operational efficiency. You should evaluate the information requirements for the assessment process and suggest appropriate analysis methods or tools to develop the information. If needed, you may suggest improvement measures for enhancing the building environmental performance.

You should prepare a technical report of not more than 10 nos. of A4 pages to present the professional advice to the client in a concise and systematic way. The report shall address the following issues for effective implementation of the project. Other important issues may also be included.

- Comparison of the two assessment methods (BEAM Plus and LEED) and identification of suitable system(s) for the project.
- Guidance on the assessment process and information requirements.
- Advice on analysis methods or tools and improvement measures for enhancing the building environmental performance.

The report shall be submitted in electronic PDF format to the Moodle of MEBS6020. The assessment criteria of the report include quality of the content, organization, clarity of thought, and report writing skills. The report will be evaluated on synthesis of information during the course and from your own reading/study, and evidence that you have thought about the subject and the lecture topics in some depth. A clear structure and a logical argument is important and you should provide evidence of critical thinking, originality and effective writing.

Report submission (via Moodle): **on or before 11 August 2020 (Tue)**