### **Accepted Manuscript**

Integrated life cycle cost method for sustainable structural design by focusing on a benchmark office building in Australia.

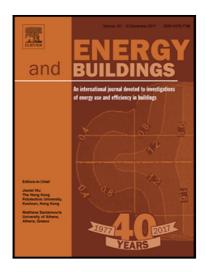
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#### ACCEPTED MANUSCRIPT

#### Highlights

- Impact of structural designs on the Life cycle CO<sub>2</sub>-e emissions of a building.
- Develop a global assessment parameter to assess LCC and Life cycle CO<sub>2</sub>-e emissions.
- Effect of Ultra-lightweight concrete on LCC and Life cycle CO<sub>2</sub>-e emissions.

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