

ARC 3723 | EBS II

Assignment 5: Low Energy Case Study - Abstract and Graphic Report

Due: 03/02 (end of day). Upload PDF to Canvas.

Reading: Heating, Cooling, Lighting: Sustainable Design Methods for Architects - Edition 15: Chapter 19 / Edition 14: Chapter 18

Assignment: *Low Energy Case Study - Abstract*

1. Abstract - Select a project for a low-energy case study and write an approximate 300 word abstract regarding your group's research interest in the project. You can select a project listed in Chapter 18/19 or another project that your group is interested in researching. If it's a project not listed in Chapter 18/19, it must be of a similar size and complexity as those listed in Chapter 18/19.

2. Graphic Report / Presentation - Create a 5-7 page graphic report on your selected project which highlights and explains in detail key sustainability strategies and environmental technologies. Your report should mainly use diagrams and graphical means to explain the topics. If not your own, all diagrams, illustrations, and images need to be cited. Each group will present their graphic report to the entire class on either 03/03, 03/05 or 03/07. Each group will have approx. 5-7 minutes to present.

Groups: Work in groups of 2 or 3.

Final hand in / PDF:

- Groups of 2 - Approx. 300 word abstract and 5-7 page graphic report (upload to Canvas as a multi-page single PDF)
- Groups of 3 - Approx. 300 word abstract and 5-7 page graphic report (upload to Canvas as a multi-page single PDF)

Notes

- The building / project your group selects must have both passive and active low-energy design strategies.
- In addition to Chapter 18/19, there are many projects listed on AIA's COTE Awards website - <http://www.aiatopten.org/>

Evaluation/Assessment

- 45% Quality and relevance of research
- 30% Pertinence and quality of diagrams / illustrations / images
- 20% Formatting and clarity of graphic report
- 5% References and citations (text and all images)