

## Materials for Energy MSE 455/556

### Project 04 Statement Case Study

#### Objective:

The objective of this project is to perform and present a case study of a renewable energy system, with particular emphasis on the materials required.

#### Report & Presentation:

The products of this project will take the form of a written report and an oral presentation. The report must follow the template provided on the course website. The presentation will be given in class.

#### Grading:

As stated in the course syllabus, this project constitutes 35% of the course grade.

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| • Case Study Team Project:                    |           |
| ○ Team Written Report                         | 15%       |
| ○ Team Oral Presentation                      | 15%       |
| ○ Team Participation (evaluated by teammates) | <u>5%</u> |
| ○ Total                                       | 35%       |

#### Five Elements:

The Case Study will follow the five steps described by Ashby in Chapter 7 of Materials and Sustainable Development.

- Statement of the Prime Objective, Size Scale and Time Scale
- Identification of Stakeholders and their Concerns
- Fact-Finding
- Synthesis of Facts with Human, Natural and Manufactured Capital
- Informed Reflection

#### References:

The report must include no fewer than **ten** references, which are attributed to the original source. These references must be from the following sources

- archival, peer-reviewed journals
- government reports
- technical monographs

Additional references from newspapers and websites are acceptable, but do not count toward the required references.