

SLUkurs

Syllabus

PNG0027 Life Cycle Assessment with focus on bioenergy, 4.0 credits

Syllabus approved

2010-06-21

Subjects

Technology

Education cycle

Third cycle

Grading scale

Pass / Failed

The requirements for attaining different grades are described in the course assessment criteria which are contained in a supplement to the course syllabus. Current information on assessment criteria shall be made available at the start of the course.

Language

English

Prior knowledge

The course is primarily intended for PhD-students associated to the SLU graduate School in Bioenergy but also other PhD-students at SLU or other Universities are welcome.

Objective, including learning outcomes

The objective of the course is to give the participants an overall understanding in how to evaluate and compare environmental and resource aspects for the whole

production chain of bioenergy systems from source to end user in a system perspective.

Specific goals

- To give the theoretical background to LCA and knowledge of the fields of application of LCA.
- To give knowledge of the limitations of the methodology in relation to bioenergy systems.
- To give the students knowledge to perform a basic LCA and to write a transparent LCA-report.
- To give knowledge of how to critical review an LCA of a bioenergy system.

Content

The course will comprise the theoretical background to LCA and knowledge of the fields of application of LCA. The course will also give knowledge of the limitations of the methodology and how to critically review an LCA. The students will perform a basic LCA and write a transparent LCA-report. The students will also produce a report with a LCA-perspective on their own research subject alternatively literature study with a LCA-topic.

Requirements for examination

- Participation in lectures.
- Preparation and presentation of two projects.
- Critically review an LCA report of a bioenergy system.

Additional information

The number of course participants is limited to 25 and first priority is given to PhD-students within the graduate school. Latest application date is October 1st.

Responsible department

Department of Energy and Technology