

Course Syllabus

Economics of Solar Energy 2.5 Credits*, Second Cycle

Learning Outcomes

Upon successful completion of the course the student shall be able to:

- apply and discuss various financial performance indicators to evaluate investments in solar energy systems
- describe the importance, advantages and limitations of direct and indirect financial incentives, and policy and regulatory measures supporting the implementation of solar energy projects

Course Content

The course deals with the application of methods of engineering economics in the appraisal /evaluation of solar energy systems and their comparison with other energy options. The effects of different policy, regulatory and other support measures (such as feed-in tariffs, renewable purchase obligation, soft loan, capital subsidy or viability gap funding, investment and production tax credits) on the financial attractiveness of investments in solar energy systems will be examined. Approach(es) towards quantifying the environmental benefits of investments in solar energy systems will also be discussed.

Assessment

Group work, individual oral presentation, 2.5 credits.

Forms of Study

Lectures, exercises and seminars.

Grades

The Swedish grades U–G.

Prerequisites

Bachelor of Science degree in engineering (mechanical, electrical, energy, engineering physics) of at least 180 credits and English 6

Other Information

Replaces MÖ3030.

Subject:

Energy Technology

Group of Subjects:

Energy Technology

Disciplinary Domain:

Technology, 100%

This course can be included in the following main field(s) of study:

1. Energy Technology
2. Solar Energy Engineering

Progression Indicator within (each) main field of study:

1. A1N
2. A1N

Approved:

Approved 24 May 2018

Valid from 24 July 2018