

## Course Syllabus

### Positive Energy Districts 3 Credits, Second Cycle

#### Learning Outcomes

Upon completion of the course, students will be able to:

- describe positive energy district concepts in different contexts.
- design, plan and simulate positive energy districts.
- evaluate the impact of positive energy districts.
- explain positive energy districts at an appropriate level for various recipients in society.
- develop plans for implementation and replication of positive energy districts.
- discuss, respond and give constructive criticism in order to further develop the area of knowledge.

#### Course Content

The course covers four aspects of positive energy districts. The first aspect is definition and context of positive energy districts in different regions. The second aspect focuses on planning and simulation tools of positive energy districts. This part also contains the introduction of available technologies for developing positive energy districts. The third aspect discusses impact assessment and social engagement issue of positive energy districts. The fourth aspect deals with implementation and replication strategies of positive energy districts towards carbon-neutral cities.

#### Assessment

- Hand in assignment
- Seminar

#### Grades

The grading scale used for the final course grade is U–G.

Grades are reported as follows:

- Hand in assignment - 2 Credits | U–G
- Seminar - 1 Credit | U–G

#### Prerequisites

Bachelors Degree 180 credits in Architecture, Construction Engineering, Electrical Engineering, Energy Engineering, Mechanical Engineering or Urban Planning and English 6

**Other Information**

The course is given in English.

This course cannot be counted towards the same degree along with courses that have equivalent content.

If the student has received a decision/recommendation granting study support from Dalarna University because of a disability, then the examiner has the right to offer an alternative examination arrangement. The examiner takes into account the objectives in the course syllabus when deciding whether the examination can be adapted in accordance with the decision/recommendation.

**Subject:**

Energy Technology

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

1. No main field of study

**Progression Indicator:**

1. AXX

**Approved:**

Valid from 11 November 2023