



FMJ3389 Energy Policy and Planning 6.0 credits

Energipolicy och -planering

This is a translation of the Swedish, legally binding, course syllabus.

If the course is discontinued, students may request to be examined during the following two academic years

Establishment

On 12/07/2019, the Dean of School of ITM has decided to establish this official course syllabus to apply from spring term 2020 (registration number M-2019-1474).

Grading scale

P, F

Education cycle

Third cycle

Specific prerequisites

Master degree or the equivalent is required as prior knowledge in science, technology, energy or related subject. Documented proficiency in English B or the equivalent

The course is primarily aimed for doctoral students who focus on energy research. Both doctoral students from KTH Royal Institute of Technology and other universities may participate.

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

The course analyses energy policy and planning. The students learn to understand energy challenges based on a plannings perspective and the strategic role that policy plays for the formation of energy systems. The students will review different policies, analyse political aims and policy implementations and the results. In the final exercise, the doctoral students connect energy policy questions to their research subject.

On completion of the course, the doctoral student should be able to: (i) understand how the energy policy is designed and is carried out; (ii) identify different policies and political processes; (iii) understand the role of parties different interested and (iv) assess policyresultat. Furthermore, the students will also learn to understand how energy policy instruments influence investment decisions, industrial development and the action of public institutions.

Course contents

1. Policy role - The factors that influence the design of the energy policy, such as historical development of energy systems, ideologies, socio-economic changes, aims and available technical alternatives on short and long term and synergies with other strategies are discussed in relation to current international and national contexts and the role that different interested parties play.
2. Policy instruments - the students learns about rules and economic instruments that are used in the energy policy. How do these instruments influence the development of the energy system? The energy policy in the context of European and developing countries will be discussed and analysed in the form of case studies. The perspective for different interested parties will be analysed (i.e.: private sector, government, institutions, users and international organs).
3. Planning and implementation - the effects of the energy policy (economic, technical, social, environmental sustainability) will be assessed. The effect of the policy on investment decisions and the users' behaviour, as well as the assessment of energy policy results will be discussed. Political successes and failures will be discussed and analysed. The use of indicators for follow-up of the policy is also a central element in the discussion.

Examination

- INL1 - Assignment, 1.0 credits, grading scale: P, F
- PRO1 - Project assignment, 1.5 credits, grading scale: P, F
- SEM2 - Seminars, 1.0 credits, grading scale: P, F
- TEN1 - Home examination, 1.5 credits, grading scale: P, F
- ÖVN1 - Exercises, 1.0 credits, grading scale: P, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

Other requirements for final grade

Participation in the seminars and at least 60% of the lectures is required.

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.