wir906 - Resource and Energy Economics

<table>
<thead>
<tr>
<th>Module label</th>
<th>Resource and Energy Economics</th>
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<tbody>
<tr>
<td>Module code</td>
<td>wir906</td>
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<tr>
<td>Credit points</td>
<td>6.0 KP</td>
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<tr>
<td>Workload</td>
<td>180 h</td>
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**Used in course of study**
- Master's Programme Sustainability Economics and Management > Basic and Accentuation Modules
- Master's Programme Water and Coastal Management > Socioeconomics

**Contact person**
- Module responsibility
  - Christoph Böhringer
- Authorized examiners
  - Die im Modul Lehrenden
- Module counseling
  - Emmanuel Asane-Otoo
  - Jan Schneider

**Entry requirements**

**Skills to be acquired in this module**
- Understanding the (normative) problems of resource use
- Rationales and instruments for policy intervention into (energy) markets
- Command of analytical methods (incl. role of analytical and numerical models in policy analysis)
- Ability to judge energy policy issues based on sound economic analysis (theory)
- Ability to quantify the relevance of arguments (empirics).

**Module contents**
The course deals with the following subjects: Resource economics - Economics of sustainable resource use, methods of resource economics, non-renewable resources, renewable resources
- Energy economics - Markets and regulation: competitive markets as efficiency benchmark; market failures as a rationale for regulation - Fundamentals of energy system/market analysis: definitions and concepts; energy statistics and balances; elasticities and incidence of policy interference - Market imperfections and regulatory design: environmental externalities, imperfect competition - Electricity markets: supply, demand, market interactions, market failures and regulatory responses
- Methods of teaching: The course is designed as a lecture that teaches the relevant methods, concepts and models and illustrates them with reference to practical examples.

**Reader's advisory**
Steven Stoft, Power System Economics : Designing Markets for Electricity, New York 2002;
IEA: World energy outlook, annual.

**Links**

**Language of instruction** English
**Duration (semesters)** 1 Semester
**Module capacity** unlimited
**Module level** ---
**Module type** je nach Studiengang Pflicht oder Wahlpflicht

**Lern-/Lehrform / Type of program** Lectures

**Vorkenntnisse / Previous knowledge**

**Examination**
**Time of examination**
**Type of examination** Written exam

**Final exam of module**
**Course type**
- Lecture
  - Comment
  - SWS: 4.00
- Seminar
  - Comment
  - SWS: 0.00

**Workload attendance**
- Frequency
- Workload attendance
  - Lecture: 56 h
  - Seminar: 0 h

**Total time of attendance for the module** 56 h