wir906 - Resource and Energy Economics

Module label | Resource and Energy Economics
Module code | wir906
Credit points | 6.0 KP
Workload | 180 h
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 frequency | yearly
Module capacity | unlimited
Modulart | ---
Lern-/Lehrform / Type of program | Lectures
Vorkenntnisse / Previous knowledge

Examination
Final exam of module | Time of examination | Type of examination | Written exam
Course type | Comment | SWS | Frequency | Workload attendance
Lecture | | 4.00 | | 56 h
Seminar | | | | 0 h
Total time of attendance for the module | 56 h