

- Law and Economics of Electricity Markets -

SS 2023

Course instructor:

Gerrit Gräper, MSc.; accompanying: Prof. Dr. Georg von Wangenheim

Course format:

Seminar

Teaching language:

English / German

Participation requirements:

Fundamentals of economics

Module assignment:

EB&Go: 3B, 6;

WiRe: W1, W3, IB2

Course description:

In the course of the seminar, the students work independently on economic issues in the field of energy markets using the textbook "Handbook on electricity markets". Students receive an introduction to the economic fundamentals of electricity markets. On the basis of this, the students select one of 15 students and present the problem presented on the basis of economic papers. They develop these independently and prepare the contents in such a way that they can be presented to their fellow students as part of a presentation. The papers available for selection are modelled on the structure of the textbook mentioned at the beginning. The penetration of the assigned economic paper forms the basis of a written elaboration on an associated legal question. The students learn to use economic arguments in a legal argumentation and to present the results of this argumentation scientifically convincing.

Content:

The electricity market is changing. A new market design is necessary because the changing demand profile of the energy supply is not compatible with traditional market concepts: a reversal is necessary, in which demand-side adaptation to scarcity signals is the focus. In this new environment, new market and business concepts are emerging, which can be exploited with the help of new technology. In this new environment, new opportunities are accompanied by new legal challenges. This seminar combines economically sound potentials and business ideas with the associated legal challenges.

Qualification goals:

- Literary competences
 - Capture literature
 - Evaluate the quality of literature
 - Improve the ability to contextualize contents
 - Critically recognise connections, commonalities and contradictions between sub-disciplines
- Written competences
 - Concise formulation
 - Preparation of a jurisprudential paper in which economic arguments are taken up
 - Development of a research question
 - Compliance with format requirements
 - Proper citation
- Oral competences
 - Elaborate complex issues and communicate them in a comprehensive manner
 - Create engaging, scientific presentations
 - Guidance and participation in a discussion

Examination performance:

- Presentation (50%):
 - Time frame: 30 minutes presentation, 10 minutes discussion
- 3-minute pitch (5%): What is my legal question and how is it economically sound?
- Written paper (45%): 10–17 pages (=25000 to 42500 characters)
 - Important:
 - Intensive discussion of the legal issue
 - Finding an answer to the research question
 - Integration of the previously elaborated economic arguments in the answer to the question

Grading scheme:

| 0-49: 5 | 50-54:4 | 55-59:3,7 | 60-64:3,3 | 65-69:3 | 70-74:2,7 | 75-79:2,3 | 80-84:2 | 85-89:1,7 | 90-94:1,3 | 95-100:1 (| points of 100 potential: Grade |)

Outline of course:

Date	Theme	SWS
14.04.2023	Introduction to the economic fundamentals of electricity markets / How to approach economic papers	4
30.04.2023	Stating own preferences for the economic papers	8
01.05.2023	Allocation of economic papers	
22.05.2023	Room for questions about the paper (read until now)	2+8
01.07.2023	Development of a legal question based on 3-minute pitches including the proposition of a concrete legal question, its connection to the economic paper and a preliminary answer to the question	2+8
16.08.2023	Presentation block I	6+50
17.08.2023	Presentation block II	6
18.08.2023	Presentation block III	6
22.09.2023	Submission of the paper	80

Concept:

In **session 1**, students learn about the specific requirements of this seminar. In addition to the structure of the seminar, the exam performance as well as the different decisions that the students have to make in this seminar. Students will learn the key to the moodle course and will be able to see the chapters of the textbook and the related economic papers that are suitable for editing. In addition, students receive a brief introduction to the peculiarities of electricity markets (need for supply=demand, natural monopolies, unbundling, etc.). Subsequently, however, this session will also discuss how students can approach the elaboration of an economic paper. Key questions are: How should this be done? What's important? How do I prepare an economic paper for my fellow students?

The students then have the opportunity to discuss the possible papers for two weeks before submitting and submitting their preferences for the processing of a paper. With the help of the Gale-Shapley algorithm, the assignment "Economic Paper – Students" will be made the following day. The students now work on their paper and start preparing for the examination presentation.

The **second session** is intended as an introduction to scientific presentations, as well as a "room for questions". The main questions here are: How do I structure my presentation? What contents of the economic paper do I present? How do I use the time I've been given to you? Furthermore, in the second part of the session, students will have the opportunity to exchange ideas: What problems arise during the process? How can these problems be solved? The lecturer moderates and gives assistance.

After the second session, the students should have an understanding of how to process and prepare the economic paper assigned to them.

In the **third session**, the students explain in a 3-minute pitch which legal questions might arise from their economic paper. The collective gives feedback and supports. Subsequently, the written elaboration of the legal questions arising from the economic paper begins.

Depending on the number of registrations, there will then be several presentation blocks in the **fourth, fifth and sixth session**, in which the economic papers will be presented to each other.