



ENERGY MANAGEMENT

MBA

PROGRAM

Winter Semester 2024/25

Intake 2024 - 2026

Last update on: 14 August 2024

THIS PUBLICATION REFLECTS THE STATE OF PLANNING AT THE
TIME OF ANNOUNCEMENT.

TUBS GmbH
TU Berlin ScienceMarketing
Hardenbergstraße 16-18
10623 Berlin
Deutschland

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Dear Students,

The energy market is one of today's most fast-paced, decisive, and profitable industries and is crucial to the global economy, the environment, and our future society as a whole.

Climate and economic changes, public opinion, technological progress, and regulation shape unforeseen challenges and opportunities. This situation calls for new solutions to be delivered by highly skilled and appropriately trained experts with an all-embracing overview, an international outlook, and the will to create a true impact. Due to its economic, entrepreneurial, and industrial strength as well as its successful and progressive energy policies, known as the —Energiewende—, Germany stands out as a front-runner in the global energy transition. The industry, therefore, requires broadly skilled individuals who are experts in the field.

We are delighted to welcome you to this exciting TU program, where faculty and industry experts convey the latest scientific and practical insights in the field, discuss today's challenges, and prepare students for leading roles in shaping the industry, and society, for the future ahead.

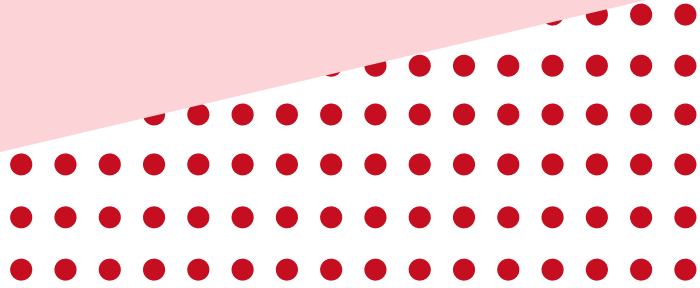
Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER
Academic Director

Gernot BOHMANN
Academic Program Manager

Dr. Jing WU
Academic Program Manager

Sandra LUBAHN
Administrative Manager

OVERVIEW



The Energy Management Team



Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER

Academic Director MBA Energy Management

Professor for Management of Energy and Resources, School for Technology and Management, Faculty for Economics and Management of Technical University Berlin

<https://www.er.tu-berlin.de/>

Gernot BOHMANN, M.Sc.

Academic Program Manager

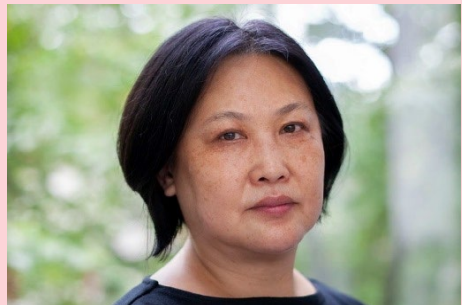
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Dr. Jing Wu

Academic Program Manager

jing.wu.1@campus.tu-berlin.de

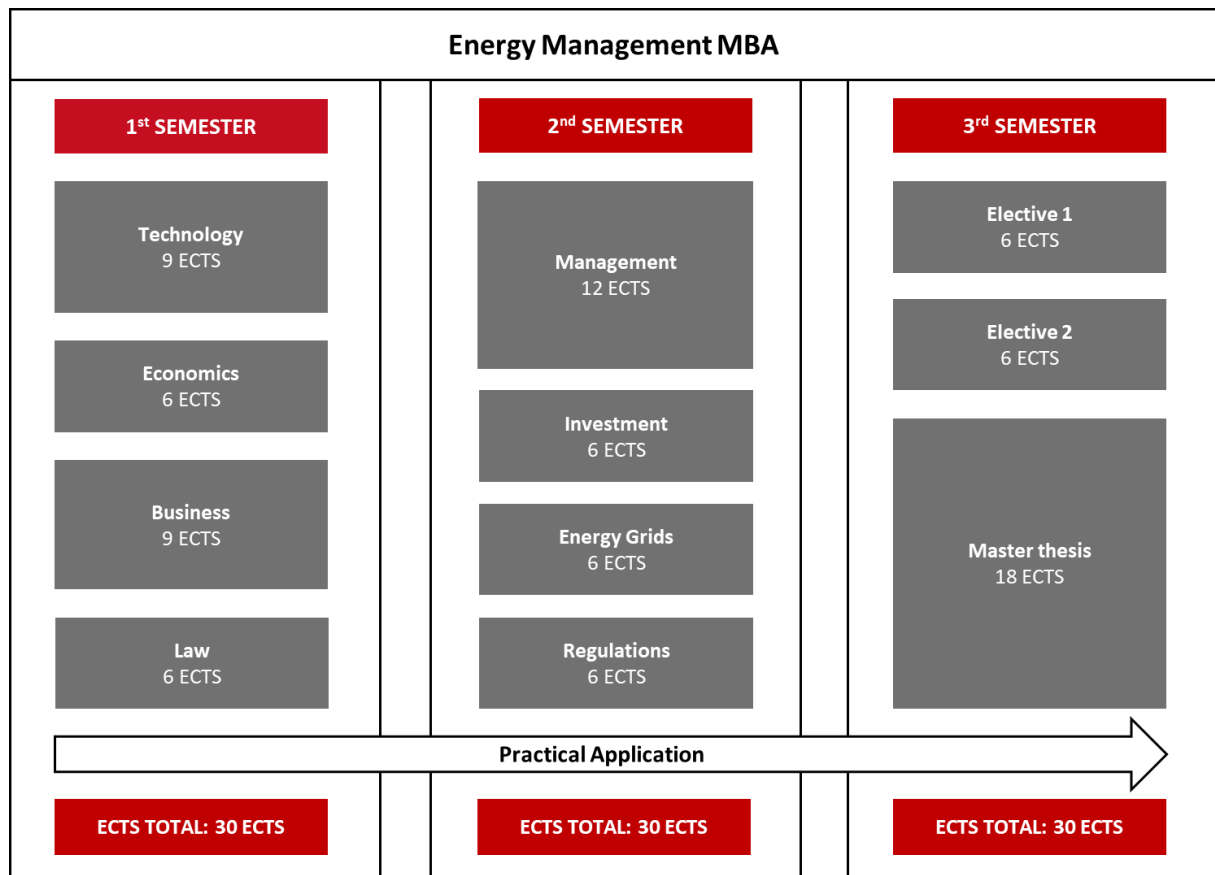


Sandra LUBAHN

Administrative Manager

sandra.lubahn@campus.tu-berlin.de





The master's program is taught over a period of three semesters. The first semester covers the technical, economic, entrepreneurial, and legal foundations for management decisions in the energy sector; the second semester deepens this view and looks at business practices, primarily of grid-based utilities, and investment; the third semester broadens the perspective while simultaneously focusing on practices according to students' individual interests. All semesters include lectures, tutorials, seminars, company visits, online materials related to practice, and extracurricular activities. The master thesis, due in the third semester, concludes the program.

Location and Times

Unless otherwise announced, lectures, tutorials, consultancy, and peer group meetings take place at EUREF-Campus, 10829 Berlin, House 9, Room S3/at the TUB Main Campus, Main Building H, Room 3010 – or as announced on Moodle. The time is CET.

Semesters

- **First semester** (Winter semester 2024/25)
Duration of semester: **01.10.2024 - 31.03.2025**
 Lecture period: 14.10.2024 - 15.02.2025
 Lecture-free period: 17.02.2024 - 31.03.2024 as well as public holidays

- **Second semester** (Summer semester 2025)
Duration of semester: **01.04.2025 - 30.09.2025**
 Lecture period: 14.04.2025 - 19.07.2025
 Lecture-free period: 21.07.2025 - 30.09.2025 as well as public holidays

- **Third semester** (Winter semester 2025/26)
Duration of semester: **01.10.2025 - 31.03.2026**
 Lecture period: tba
 Lecture-free period: tba as well as public holidays

Lectures

Lectures are held by professors and academic staff of TU Berlin and other universities, as well as energy industry professionals. The lectures are divided into core and specialized lectures. Core lectures teach the basics and are relevant for students of all MBA programs; specialized lectures are designed for students of the Energy Management program to dive deeper into energy-related content. Group work is frequent. Homework may be assigned. **Lectures start *sin tempore*, i.e., sharp.**

9.30 – 12.45 | 13.45 – 17.00

Company Visits/Tutorials

Tutorials	Company Visits
08.00 - 12.00, 13.00 – 17.00	14.00 – 16.00 or Day Trip

Tutorials are mainly held by research associates and assistants of the respective chairs. Of a generally more interactive nature, they repeat lecture material, supply supportive information, offer additional training, and help prepare for lectures and exams.

Company Visits/Presentations are regularly scheduled on Wednesdays or Thursdays. Company Presentations and Cases take place on EUREF Campus, House 9, Room S3. In contrast, Company Visits provide the opportunity to experience course content in person by visiting the company on-site. Registration before attendance may be required.

German Classes

Language classes are offered on campus and incur a small additional fee. Advanced language classes are available, for which taking a test is mandatory. For more information, visit the website of Sprach- und Kulturbörse [here](#).

E-Learning Platform 'Moodle' and Wireless LAN

Information System for Instructors and Students (ISIS)/Moodle is a software platform for online learning, announcements, distribution of material, registration to events, etc. An introduction will be given in the first week. Please log on frequently, even in lecture-free times. The TU Berlin offers [Wireless LAN](#) (WLAN) with full coverage across its campus. Students can access the internet from any point on the campus. Moreover, it makes sense to have a stable internet connection at your home as well in order to participate in digital lectures or online meetings without problems and to study and learn in case campus is not open.

Exams

A written (e-) exam, paper, presentation, or portfolio concludes each module. Everything taught in the lectures, tutorials, and compulsory company visits within the module may be subject to examination. Exams start on time! A failed examination may be repeated twice. For further details, please refer to the official Study and Examination Regulation. **Attendance is obligatory.**

Grading Scale

Grade	Assessment	Definition
1.0 / 1.3	Very good	Outstanding performance
1.7 / 2.0 / 2.3	Good	Performance above average requirements
2.7 / 3.0 / 3.3	Satisfactory	Complies with the average overall requirements
3.7 / 4.0	Adequate	Performance which, despite some flaws, still complies with performance requirements
5.0	Inadequate	Performance with significant flaws which does not comply with requirements

A grade of 0,0 indicates the course was not graded but rather given a mark of "pass" or "fail".

1 ECTS is equal to a workload of 30 hours

FIRST SEMESTER

WISE 2024/25



Social and Academic Events

Orientation Week 2024

7 – 11 October 2024

TU Main Campus
EUREF Campus
E-Learning Introduction
Library Insights, Meet Up,
Administrative Duties



Official Opening

11 October 2024 – 4:00 pm

Venue: TU Main Campus
Welcome Addresses Academic Directors
Academic & Administrative Staff

Christmas Get-Together

More information tba



Module Technology (9 ECTS)

Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER

Institute Technologie und Management (ITM)
Faculty Wirtschaft und Management
sec. H 69, Room H 6118
Straße des 17. Juni 135, 10623 Berlin
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energymanagement@master.tu-berlin.de



Aims and Scope

This module revisits and broadens students' knowledge of energy technologies and systems in the context of today's changing world, preparing the ground for the coming modules. Students are taught to apply this knowledge independently to selected cases. Module 2, Economics, runs in parallel.

Keywords

Renewable energy sources; bio energy; hydro energy; geothermal energy; fluctuating renewable energy sources; wind onshore; wind offshore; solar thermal; solar PV; energy grids; electricity grids; gas grids; hydrogen; subsurface; sector integration; heating technologies; HVAC drives fuels, and systems.

Examination (9 ECTS, graded)

Core & Specialized Part: Written exam, 120 minutes, graded

Schedule

Mon. 14 Oct 2024

All day
(exact time tba) **Excursion 1 (2024TECH-CORE-X1-EM-1):**
Neue Energien Forum Feldheim e.V.

Tue. 15 Oct 2024

All day
(exact time tba) **Excursion 1 (2024TECH-CORE-X1-EM-2):**
Neue Energien Forum Feldheim e.V.

Wed. 16 Oct 2024

09:30 - 17:00 **Lecture 1 (2024TECH-CORE-L1):**
Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER

Fri. 18 Oct 2024

09:30 – 17:00 **Lecture 2 (2024TECH-CORE-L2):**
Prof. Dr. Gioia FALCONE

Wed. 23 Oct 2024

09:30 – 12:45 **Tutorial 1 (2024TECH-CORE-T1-EM):**
Benjamin GROSSE, M.Sc./Maximilian EVERS

13:45 – 17:00 **Tutorial 2 (2024TECH-CORE-T2-EM):**
Benjamin GROSSE, M.Sc./Maximilian EVERS

Schedule Specialized Part

Fri. 25 Oct 2024

09:30 – 17:00

Lecture 3 (2024TECH-SPEC-L3-EM):

Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER

Fri. 01 Nov 2024

09:30 – 17:00

Lecture 4 (2024TECH-SPEC-L4-EM):

Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER

Wed. 06 Nov 2024

09:30 – 12:45

Tutorial 3 (2024TECH-SPEC-T3-EM):

Benjamin GROSSE, M.Sc./Maximilian EVERS

13:45 – 17:00

Tutorial 4 (2024TECH-SPEC-T4-EM):

Benjamin GROSSE, M.Sc./Maximilian EVERS

Sat. 16 Nov 2024

09:30 – 17:00

Lecture 5 (2024TECH-SPEC-L5-EM):

Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER

Wed. 20 Nov 2024

09:30 – 12:45

Tutorial 5 (2024TECH-SPEC-T5-EM):

Benjamin GROSSE, M.Sc./Maximilian EVERS

Fri. 29 Nov 2024

09:30 – 17:00

Lecture 6 (2024TECH-SPEC-L6-EM):

Student Presentations,

Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER

Mon. 09 Dec 2024

10:00 - 12:00

Tutorial Q&A (2024TECH-Q&A-EM):

Benjamin GROSSE, M.Sc.

Fri. 13 Dec 2024**09:30 – 11:30****Exam written, 120 minutes, graded (2024TECH-EXAM-EM):****Literature**

[1] Robert L. Jaffe and Washington Taylor. The Physics of Energy. Cambridge University Press, 2018.

[2] P. Zweifel et al. Energy Economics. Springer Texts in Business and Economics, Springer 2017.

[3] Y. Demirel. Energy. Springer 2012.

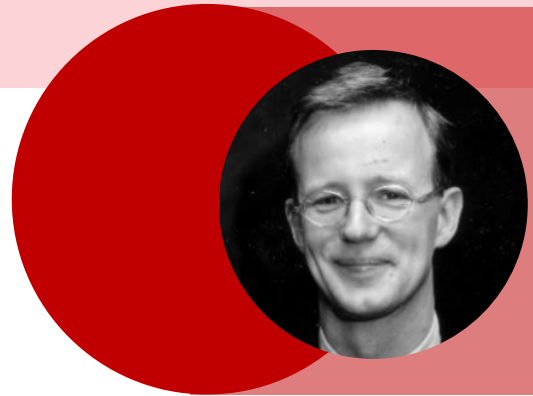
[4] W Shepherd and D W Shepherd. Energy Studies. Imperial College Press, 2008.

[5] Volker Quaschnig. Understanding Renewable Energy Systems. Earthscan, 2005.

Module Business (9 ECTS)

Prof. Dr. Dodo zu KNYPHAUSEN-AUFSEß

Strategic Leadership and Global Management
T.U. Berlin
Sec. H 92, Room H 9166
Straße des 17. Juni 135, D-10623 Berlin
+49-(0)30-314-28744
knyphausen@strategie.tu-berlin.de



Aims and Scope

The students will understand the fundamentals of management and business administration/business functions: accounting, marketing and sales, organization, industry analysis, business units, and strategy. The students will get acquainted with the concepts of supply chain management, distribution and logistics, production and quality, HR/Personnel, public relations, and R&D.

Keywords

Fundamentals of management and business administration; management and leadership; shareholder and stakeholder value approach; the concept of strategy; Porter's Five Forces; SWOT-Analysis; etc.; strategic business units; industry analysis; generic strategies; vertical integration; portfolio analysis; diversification; strategy process; case studies.

Examination (9 ECTS, pass/fail)

Core Part: online quiz, 60 minutes, pass/fail
Specialized Part: group presentation, pass/fail

Schedule Core Part

Wed. 09 Oct 2024

09:30 – 12:45

Tutorial

Conflict Management

Katharina Yombi

Sat. 19 Oct 2024

09:30 – 17:00

Lecture 1 (2024BUSI-CORE-L1):

Basics of Business Administration & Corporate Governance,
Prof. Dr. Dodo ZU KNYPHAUSEN-AUFSEß

Sat. 26 Oct 2024

09:30 – 17:00

Lecture 2 (2024BUSI-CORE-L2):

Corporate and Business Management,
Prof. Dr. Dodo ZU KNYPHAUSEN-AUFSEß

Tue. 29 Oct 2024

13:45 – 17:00

Tutorial 1 (2024BUSI-CORE-T1-EM):

Business Ethics,
Sarah DROLL

Wed. 30 Oct 2024

09:30 – 12:45

Tutorial 2 (2024BUSI-CORE-T2-EM):

Business Frameworks and Business Canvas,
Byron STUNTZ

Sat. 02 Nov 2024

09:30 – 17:00

Lecture 3 (2024BUSI-CORE-L3):

Corporate and Business Management,
Prof. Dr. Dodo ZU KNYPHAUSEN-AUFSESS
Topic Assignment for Presentations

Mon. 04 Nov 2024

09:30 – 17:00

Lecture 4 (2024BUSI-CORE-L4-EM):

Corporate Finance,
Prof. Dr. Karola BASTINI

Fri. 08 Nov 2024

09:30 – 12:45

Tutorial

Intercultural Communication
Carla Vollert

Wed. 13 Nov 2024

09:30 – 12:45

Tutorial 3 (2024BUSI-CORE-T3-EM):

Presentation Techniques,
Bettina BROCKMANN

13:45 - 17:00

Tutorial 4 (2024BUSI-CORE-T4-EM):

Accounting & Finance,
Dr. Maximilian WACHTER

Tue. 19 Nov 2024: Quiz multiple choice, online (available 24h)

Schedule Specialized Part

Fri. 06 Dec 2024

09:30 – 17:00

Lecture 5 (2024BUSI-SPEC-L5-EM):

Management in the Energy Sector - Market Roles, Function &
Participants in Liberalized Energy Markets,
Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER

Fri. 24 Jan 2025

09:30 – 17:00

Lecture 6 (2024BUSI-SPEC-L6-EM):

Information Systems in the Energy Sector,
Dr. Volker BÜHNER

Sat. 25 Jan 2025

09:30 – 17:00

Lecture 7 (2024BUSI-SPEC-L7-EM):

Marketing,
Prof. Dr. Justin BECKER

Thu. 13 Feb 2025

09:00 – 17:30

**Examination: Presentations, in total 8 hours, pass/fail,
Prof. Dr. Dodo ZU KNYPHAUSEN-AUFSESS
Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER**

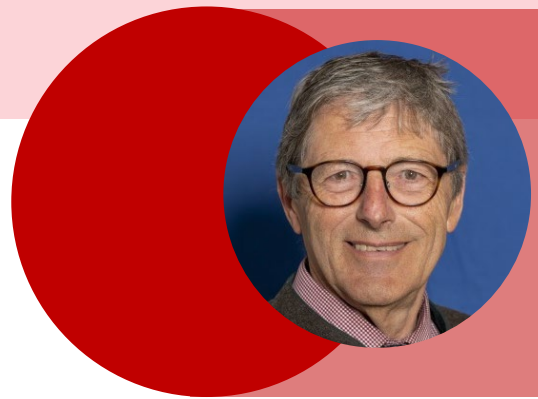
Literature

- [1] Robert M. Grant, Contemporary strategy analysis, Published by John Wiley & Sons Ltd. (2010).
 - [2] Zott, C., Amit, R., & Massa, L. (2011). The business model: recent developments and future research. *Journal of Management*, 37(4), 1019-1042.
 - [3] Casadesus-Masanell, R., & Tarzijan, J. (2012). When one business model isn't enough.
 - [4] Robbins, Judge (2016): *Essentials of Organizational Behavior*, p. 118-125
 - [5] Marketing: Malcolm McDonald; Alisa Kolsaker(2014), *MBA Marketing*, Red Globe Press; Auflage: 2014
 - [6] Weygandt, J.J./Kieso, D.E./Kimmel, P.D. (2016), *Financial Accounting*, 10th ed., Wiley. (+ online course, videos, interactive tutorials on WileyPLUS).
- Bebbington, J./Gray, R./Laughlin, R. (2001), *Financial Accounting – Practice and Principles*, 3rd ed., Thomson.
- Brealey, R.A./Myers, S.C./Allen, F. (2017), *Principles of Corporate Finance*, 12th ed., McGraw-Hill.

Module Economics (6 ECTS)

Prof. Dr. rer. pol. Georg ERDMANN

Department of Energy Systems
T.U. Berlin
Einsteinufer 25 (TA 8), 10587 Berlin
FT Building, Room 025
+49 (0)30 314 24 656
georg.erdmann@tu-berlin.de



Aims and Scope

This module provides students with core knowledge of economics in the field of mobility, building a foundation for the coming modules. Students are taught to apply this knowledge independently to selected cases. It runs in parallel to Module 1, Technology.

Keywords

Welfare analysis; prices and markets; market forms; production and pricing decisions; natural resource economics; merit order effects; external effects; trading in allowances; fundamentals of investment decisions; market failures and regulation; sustainability; global commons; security of supply.

Examination (6 ECTS, graded)

Written exam, 90 minutes, graded (CORE & Specialized Part)
Written paper, five pages (Preparatory Exercise/ Prerequisite)

Schedule Core Part

Wed. 20 Nov 2024

13:45 – 17:00

Tutorial 1A (2024ECON-CORE-T1A):

Academic Writing 1: Literature Review and Citation
Benjamin GROSSE, M.Sc. and Maximilian EVERS, M.Sc.

Fri. 22 Nov 2024

9:30 – 17:00

Lecture 01 (2024ECON-CORE-L1):

General Economics, Microeconomics, Macroeconomics, History of Economic Thought,
Prof. Dr. Roland MENGES

Sat. 23 Nov 2024

9:30 – 17:00

Lecture 02 (2024ECON-CORE-L2):

General Economics, Microeconomics, Macroeconomics, History of Economic Thought,
Prof. Dr. Roland MENGES

Wed. 27 Nov 2024

13:45 – 17:00

Tutorial 1B (2024ECON-CORE-T1B):

Academic Writing 2: Objective and Problem Statement
Maike KALZ, M.Sc.

Sat. 30 Nov 2024

09:30 – 12:45

Tutorial 2 (2024ECON-CORE-T2-EM):

Microeconomics, Macroeconomics,
Sarah ELSHEIKH, M.Sc.

13:45 – 17:00

Tutorial 3 (2024ECON-CORE-T3-EM):

Microeconomics, Macroeconomics,
Sarah ELSHEIKH, M.Sc.

Wed. 04 Dec 2024

09:30 – 12:45

Tutorial 4 (2024ECON-CORE-T4-EM):

Microeconomics, Macroeconomics,
Sarah ELSHEIKH, M.Sc.

13:45 – 17:00

Tutorial 5 (2024ECON-CORE-T5-EM):

Microeconomics, Macroeconomics,
Sarah ELSHEIKH, M.Sc.

Mon. 20 Jan 2025

10:00 – 11:30

Tutorial Q&A (2024ECON-Q&A-EM):

Exam Q&A Online via Zoom,
Sarah ELSHEIKH, M.Sc.
Prof. Dr. Aaron PRAKTIKNJO

Schedule Specialized Part

Thu. 21 Nov 2024

ECON Paper Announcement and start of the writing process
(2024ECON-SPEC-Paper Announcement)

Mon. 06 Jan 2025

ECON Paper (Spec. Examination), 5 Pages (Preparatory
Exercise/Prerequisite)
(2024ECON-Spec-Paper Handing In)

Wed. 08 Jan 2025

9:30 – 17:00

Lecture 3 (2024ECON-SPEC-L3-EM):

Fundamentals in Energy Economics,
Prof. Dr. rer. pol. Georg ERDMANN

Fri. 10 Jan 2025

09:30 – 17:00

Lecture 4 (2024ECON-SPEC-L4-EM):

Environmental Economics I,
Prof. Dr. Aaron PRAKTIKNJO

Sat. 11 Jan 2025

09:30 – 17:00

Lecture 5 (2024ECON-SPEC-L5-EM):

Environmental Economics II,
Prof. Dr. Aaron PRAKTIKNJO

Wed. 15 Jan 2025

09:30 – 12:45

Tutorial 6 (2024ECON-SPEC-T6-EM):

Environmental Economics
Prof. Dr. Aaron PRAKTIKNJO

TBA/TBC **Company Presentation (2024ECON-SPEC-X1-EM):**
Energy Access and Development Program (EADP),
Dr. Dawud ANSARI

Fri. 17 Jan 2025

Econ Paper Feedback about permission to take the exam
(2024ECON-SPEC-Paper Feedback 1 EM_only)

Thu. 23 Jan 2025

10:00 – 11:30

Exam CORE & Spec. Part (2024ECON-EXAM)

Written, 90 minutes, graded (written Paper is a pre-requirement)

14:00 – 16:00

Excursion (2024ECON-SPEC-X2-EM):

Futurium Berlin

Wed. 12 Feb 2025

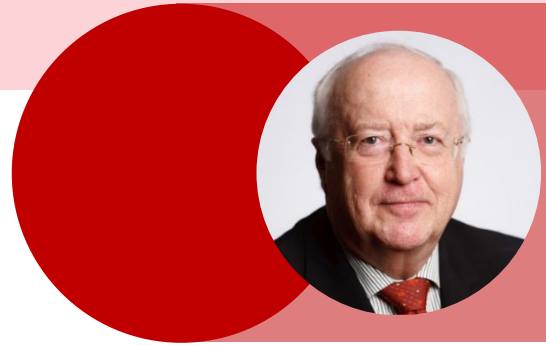
Econ Paper deeper Feedback to support LAW paper **(2024ECON-SPEC-Paper Feedback 2)**

Literature

- [1] Bhattacharyya, S.C. (2019), Energy Economics: Concepts, Issues, Markets and Governance, 2nd ed., Springer, London.
- [2] Mankiw, N.G. (2021), Principles of Economics, 9th ed., Cengage Learning, Boston.
- [3] Parkin, M. (2019), Economics, Global Edition, 13th ed., Pearson, Harlow, England. Chapters 1-3; 4-5; 8-9; 10-11; 12-13; 16-17; 21-22; 24, 27.
- [4] Zweifel, P., Praktiknjo, A. and Erdmann, G. (2017), Energy Economics, Springer, Berlin, Heidelberg.

Module Law (6 ECTS)

**Prof. Dr. iur. Dr. rer. pol. Dres. h.c.
Franz Jürgen SÄCKER Hon.Ph.D.(PCCC)**
Technische Universität Berlin



Aims and Scope

The students will learn about the fundamentals of Civil, Private and Commercial Law as well as core aspects of Public Law and Policy relevant to the energy industry. The module covers international, European and the interaction of those legal frameworks for a comprehensive and coherent energy transition.

Keywords

Energy law; energy trade and international contracts; UN conventions; WTO; ECT; contract law; EFET contracts; the legal system of the EU and the Third Energy Package; Germany's Energiewende and EEG; EU secondary law vs. regional developments; environmental law; state aid.

Examination (6 ECTS, graded)

Law paper, 10 pages, graded

Schedule Core Part

Fri. 31 Jan 2025

09:30 -17:00

Lecture 1 (2024LAW-CORE-L1):

Fundamental of European Business Law,
Prof. Dr. Lydia SCHOLZ

Schedule Specialized Part

Sat. 01 Feb 2025

09:30 – 17:00

Lecture 2 (2024LAW-SPEC-L2-EM):

Sustainable Energy Transition: Boundaries between competition and regulatory law in the Energy Sector in the context of the Paris-Agreement,
Dr. Oliver KOCH

Mon. 03 Feb 2025

Whole day

Excursion (2024LAW-SPEC-X1-EM):

EEX in Leipzig

Wed. 05 Feb 2025

09:30 – 17:00

Lecture 3 (2024LAW-SPEC-L3-EM):

The EU Legal Framework for Infrastructure Regulation,
PD Dr. Carsten KÖNIG

Fri. 07 Feb 2025

09:30 - 17:00

Lecture 4 (2024LAW-SPEC-L4-EM):

Energy Security of Supply and Tensions with an Emission-Neutral Future,

Dr. Anna Samuel VAN HAASTEREN

Sat. 08 Feb 2025

09:30 -12:45

Tutorial 1 (2024LAW-SPEC-T1-EM):

Academic Law Paper Writing

Dr. Ebru TUNCEL

13:45 – 17:00

Tutorial 2 (2024LAW-SPEC-T2-EM):

Introduction to EU Law

Dr. Ebru TUNCEL

Wed. 12 Feb 2025

09:30 – 12:45

Excursion 2 (2024LAW-SPEC-X2-EM):

Company Case+company visit (tbc)

Dr. Juliane STEFFENS

Sat. 15 Feb 2025

09:30 – 12:45

Tutorial 3 (2024LAW-SPEC-T3-EM):

Legal Framework for Energy Trading and Supply (tbc)

Prof. Dr. Susanne WENDE

Sat. 15 Feb 2025 - Paper, (Spec. Examination) 10 pages, graded

Tue. 25 Feb 2025 – 2024LAW Paper in due

(23:59)

Literature

[1] Angus Johnston and Guy Block. EU Energy Law. Oxford University Press, 2012.

[2] Kim Talus. EU Energy Law and Policy. A Critical Account. Oxford University Press, 2013.

[3] Kate L. Turabian. A Manual for Writers of Research Papers, Theses, and Dissertations. The University of Chicago Press, 2013.

Other information

Exam Retakes

tba

Summer semester 2025

Duration of semester:	01.04.2025 - 30.09.2025
Lecture period:	14.04.2025 - 19.07.2025
Lecture-free period:	21.07.2025 - 30.09.2025 & public holidays
Re-registration:	tba

SECOND SEMESTER

SoSE 2025



Module Management (12 ECTS)

Prof. Dr. Søren SALOMO

Chair of Technology and Innovation Management

Sekr. H71, Room H 7104

Straße des 17. Juni 135 | 10623 Berlin

Phone: 0049-30-314-26728

salomo@tu-berlin.de



Aims and Scope

Students are able to independently identify, analyze, and design strategic and operational approaches to managing technologies and innovation, taking into account the consequences of environmental changes for planning, management, and controlling. They do this by incorporating interdependent technological, economic, business, and legal processes in companies and organizations while considering social responsibility and sustainable development. Students will be able to define the main features of energy management, apply problem-solving skills to case studies using different fields of knowledge, and present options for optimizing the energy sector.

Keywords

Business models & plans; small group communication; leadership; environmental communication; corporate social responsibility (CSR); conflict management; change management; risk management; operational excellence; system services and energy services; Germany's energy transformation; management of reactive power; energy storage and transformation; links to the energy sector; energy management.

Examination (12 ECTS, graded)

Two quizzes (each 12P)

Business plan poster presentation (40P)

Written assignment (40P)

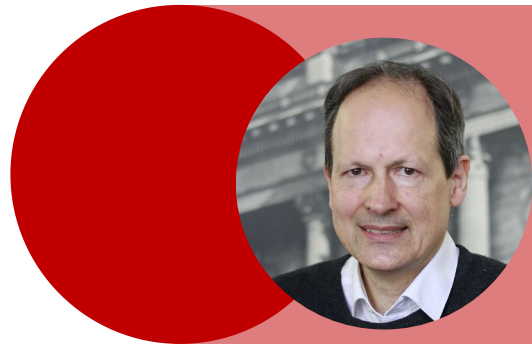
Schedule

Literature

- [1] Kerzner, H. (2013) Project Management – A Systems Approach to Planning, Scheduling, and Controlling, Wiley, New York
- [2] Cooper, R. (2008)
- [3] Christensen, C. et al. (2016)

Module Investments (6 ECTS)

Prof. Dr. Christian VON HIRSCHHAUSEN
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cvh@wip.tu-berlin.de



Aims and Scope

This module looks at investment decisions in the context of long-term energy infrastructure (generation, storage, transport/distribution) from a decision-maker perspective. The students master the basic methods of investment calculation and the common financial instruments and forms of financing. They apply problem-solving skills in a critically reflective manner to investment decisions and determine strategic approaches to solving complex problems. The knowledge acquired enables them to assess the advantages and disadvantages of various financing instruments and make advantageous decisions in the context of investment projects. They are also able to plan infrastructure projects and analyze their risks.

Keywords

Investments in energy infrastructure (networks, storage facilities, and power plants); determining capital costs; capital structure decisions; investment calculations; risk assessment and management; behavioral economics; financial instruments and forms of financing; principles of safeguarding liquidity; cost of capital rate; capital structure decisions; special purpose vehicles; portfolio management; asset management.

Examination (6 ECTS, graded)

Written exam: Investment memo, max. ten pages

Schedule

Literature

- [1] Kirschen, Daniel and Strbac, Goran (2019): Fundamentals of Power System Economics
- [2] Stoff, Steven (2002): Power System Economics
- [3] Gatti, Stefano (2018): Project Finance in Theory and Practice: Designing, Structuring, and Financing Private and Public Projects
- [4] Yescombe, E. R. (2013): Principles of Project Finance
- [5] Barcelona, Ricardo G. (2017): Energy Investments - An Adaptive Approach to Profiting from Uncertainties

Module Energy Grids (6 ECTS)

Prof. Dr.-Ing. Kai STRUNZ

Head of Chair Sustainable Electric Networks
and Sources of Energy

Secr. EMH 1

Einsteinufer 11, D-10587 Berlin

kai.strunz@tu-berlin.de



Aims and Scope

This module discusses the technical and organizational challenges of network management in the context of environmental changes. It looks at transformation processes between different forms and sources of energy and considers novel technological developments. Students will be able to identify highly specialized knowledge about energy networks, partly based on the latest technical developments and findings. They will also be able to critically evaluate fundamental problems of network management and present options for optimizing network management.

Keywords

Network management; liquid fuels and pipelines vs. power transmission; convergence; substitution and interoperability; redundancy principle; power-to-gas; power-to-heat; mobility-to-grid; combined heat and power (CHP); virtual power plants; demand response; smart meters; contracts; RES integration; network management technologies; prosumers; IT and network conversion; next-generation networks; micro smart grids.

Examination (6 ECTS, graded)

Written exam

Schedule

Module Regulation (6 ECTS)**Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER**

Academic Director

Institute Technologie und Management (ITM)

Faculty Wirtschaft und Management

sec. H 69, Room H 6118

Straße des 17. Juni 135, 10623 Berlin

+49 (0) 30 314-23214

energymanagement@master.tu-berlin.de**Aims and Scope**

Students will be able to critically reflect on the current theory and practice of regulation in Germany and Europe in both the electricity and gas sectors, assess the significance and effects of regulation on both the energy system and companies, and present options for optimizing regulation management.

Keywords

Regulation and how it is formed; impact of electricity and gas regulations on energy and natural resource companies; unbundling; network access; tariff regulation; capacity markets; energy markets.

Examination (6 ECTS, ungraded)

Portfolio (presentation and REGU-Paper)

Schedule

THIRD SEMESTER

WISE 2025/26



**Elective Modules
(6ECTS + 6ECTS)****Aims and Scope**

In their last semester, students look at current energy-related practical issues and challenges. Students choose two elective modules out of 9 (priority for specialized courses). In parallel, students work on their master's thesis.

Assessment

You will receive 6 ECTS (credits) for each course.

Type of assessment: Portfolio

Students who do not pass may repeat at the end of the current semester.

Task and point allocation

(Learning process evaluation)	Project - Contribution to the discussion, 25%
(Output evaluation)	Oral presentation, 50%
(Output evaluation)	Presentation materials/written composition (term paper), 25%

Each course is limited to 25 students.

Module Master Thesis

Supervisors Individual.

Aims and Scope

Students demonstrate with the Master Thesis their capability of independently addressing a problem from their study program, based on scientific methods, within a specific deadline. Once registered for the thesis, students have four months to conclude.

Schedule

To start the master's thesis, 60 CP must have been earned; this equals successful completion of all mandatory modules M1-M8. Technically, the earliest starting date is therefore six weeks after the last exam. The thesis can be postponed but should be completed in the third term.

Contents Individual.

Form Fifty pages, plus introduction and annex(es); In English; Scientific standards prerequisite; More detailed formal requirements to be announced.

tba Tutorial/FAQ: Preparation for Master Thesis and Term III
Dr. Jing Wu & Gernot Bohmann, M.Sc.

Graduation Ceremony MBA Energy Management 2023-24

Details to be announced

Alumni Program

With your degree, you become part of the alumni network. Alumni receive invitations to participate in the further extension of the academic program and to events held on the campus and within the network.

As the program rolls over, you are cordially invited to participate in the curricular and extracurricular events of the following academic year(s).



Faculty

Lecturers & Tutors

Dr. Dawud ANSARI

*Economist at DIW Berlin
Director at EADP
Lecturer/Consultant*

**Jun.-Prof. Dr. Karola BASTINI**

*Professor
Technische Universität Berlin
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Institute of Business Administration*

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Technische Universität Berlin
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**Prof. Dr. Justin BECKER**

*Universität der Künste Berlin
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**Dr. Nadja BERSECK**

*Trainer and Lecturer in Design Thinking and Business Model
Design*

**Lukas BIEBER**

*Head of department in the field of energy networks
Bundesverband der Energie- und Wasserwirtschaft (BDEW)*

**Gernot BOHMANN, M.Sc.**

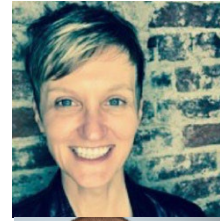
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**Dr. Maren BORKERT**

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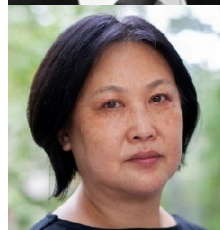
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Sarah ELSHEIKH, M.Sc.
Field Protection Assistant
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**Dr. Bodo HERRMANN**

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Prof. Dr. Christian VON HIRSCHHAUSEN
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Massachusetts Institute of Technology*



Peter HOHAUS
*Senior Policy Advisor
Uniper SE*



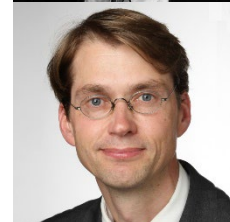
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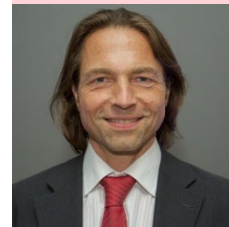
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COO TU Berlin



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**Prof. Dr. Lydia SCHOLZ**

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Hochschule Bremen

**Dr. habil. Hans-Günter SCHWARZ**

Electricity Market Modelling New Business RWE Supply and
Trading
RWE

**Dr. Simon SCHÄFER-STRADOWSKY**

Head and CEO of ikem

**Dr. Stephan SEIM**

Research Associate
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Stromnetz Berlin



Dr. Juliane STEFFENS, LL.M. (Harvard)

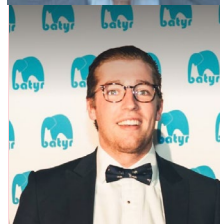
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**Byron STUNTZ, MBA**

Energy Management Expert; passionate about technology,
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**Prof. Dr. Thomas VOLLING**

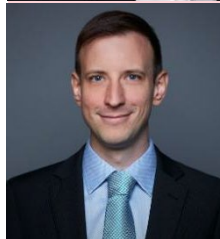
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Research Assistants and Doctoral Candidate
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