

ENERGY MANAGEMENT

MBA



Program

Winter Semester 2021/22

Summer Semester 2022

Winter Semester 2022/23

Intake 2021-2023

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

Changes may occur, also due to Covid-19. Restrictions and precautions
to teaching might apply.

TUBS GmbH
TU Berlin ScienceMarketing
Hardenbergstraße 19
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 crucial to both 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, 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 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

Sarah DREWNING
Academic Program Manager

Gernot BOHMANN
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

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Gernot BOHMANN, M.Sc., PhD Candidate

Academic Program Manager

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Sarah DREWNING, M.A.

Academic Program Manager

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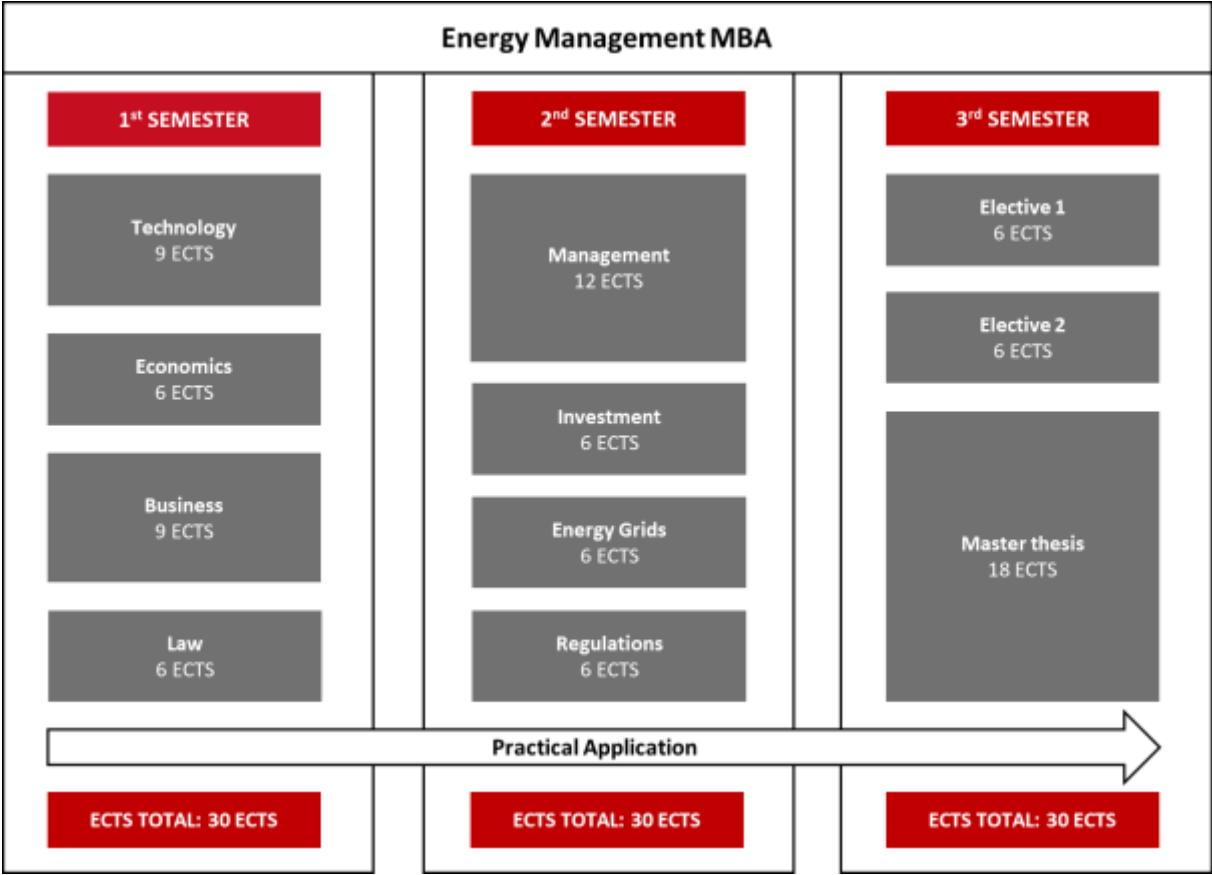


Sandra LUBAHN

Administrative Manager

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The master 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 view while simultaneously focusing on practices according to student's individual interests. All semesters include lectures, tutorials, seminars as well as 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 2021/22)
Duration of semester: **01.10.2021 - 31.03.2022**
 Lecture period: 18.10.2021 - 19.02.2022
 Lecture-free period: public holidays

- **Second semester** (Summer semester 2022)
Duration of semester: **01.04.2022 - 30.09.2022**
 Lecture period: 19.04.2022 - 23.07.2022
 Lecture-free period: public holidays

- **Third semester** (Winter semester 2022-23)
Duration of semester: **01.10.2022 - 31.03.2023**
 Lecture period: tba
 Lecture-free period: public holidays

Lectures

Lectures are held by professors and academic staff of TU Berlin and other universities, and by professionals of the energy industry. 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
08.00 - 12.00, 13.00 – 17.00

Company Visits
14.00 – 16.00 or Day Trip

Tutorials are mostly 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 take place on EUREF Campus, House 9, Room S3, whereas Company Visits give the opportunity to go and see the company on-site and see course-content more lively presented. 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 WirelessLAN

Information **S**ystem for **I**nstructors and **S**tudents (ISIS)/Moodle is a software for online learning platforms for 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 [WirelessLAN](#) (WLAN) with full coverage across its campus. Students have the possibility to 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 without problems in digital lectures or online meetings and to study and learn while the campus might not be open.

Exams

A written (e-) exam, paper, presentation, or portfolio concludes each module. Everything that was 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

First Semester Wise 2021/22



Social and Academic Events

Orientation Week 2021

11 – 15 October 2021

Main Campus Charlottenburg

EUREF Campus

E-Learning Introduction

Library Insights, Meet Up, Administrative
Duties



Official Opening

15 October 2021 – 4:00 pm

Venue: Zoom Live

Welcome Addresses Academic Directors
Academic & Administrative Staff

Christmas Get-Together

17 December 2021

Venue: The Cord, EUREF Campus



Module Technology (9 ECTS)

Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER

Institute Technologie und Management (ITM)
Faculty Wirtschaft und Management
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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

Wed. 20 Oct 2021 Excursion 01 (2021Tech-X01-EM):
Neue Energien Forum Feldheim e.V.

Wed. 12 Jan 2022 Excursion 02 (2021Tech-X02-EM): tba

Fri. 22 Oct 2021- Lecture 01 – 06
Sat. 22 Jan 2022

Wed. 05 Jan 2022- Tutorial 01 – 06 & FAQ
Mon. 14 Feb 2022

Fri. 18 Feb 2022 Exam written, 120 minutes, graded
Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER

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 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

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Aims and Scope

This module provides students with core knowledge of economics in the field of mobility and provides a grounding in the economics behind 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; markets 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, 5 pages (Preparatory Exercise/ Prerequisite)

Schedule

**Mon. 11 Oct 2021-
Tue 14 Dec. 2021**

Tutorial 01 – 08 & QA

**Fri. 29 Oct 2021-
Sat. 20 Nov 2021**

Lecture 01 – 05

Wed. 24 Nov 2021

**(Virtual) Excursion (2021Econ-X01-EM):
SIEMENS/Windnode**

Fri. 17 Dec 2021

**Exam CORE & Spec. Part - Written, 90 minutes,
graded (written Paper is a pre-requirement)**

**Thu. 18 Nov. 2021 to
Sun. 05 Dec 2021 (23:59)**

**Paper (Spec. Examination), 5 pages
(Preparatory Exercise/ Prerequisite)**

Prof. Dr. rer. pol. Georg ERDMANN

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 Business (9 ECTS)

Prof. Dr. Dodo zu Knyphausen-Aufseß

Strategic Leadership and Global Management
T.U. Berlin
Sec. H 92, Room H 9166
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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 to the concepts of supply chain management, distribution and logistics, production and quality, HR/Personnel, public relations as well as 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

Sat. 23 Oct 2021- Lecture 01 - 07
Fri. 03 Dec 2021

Wed. 27 Oct 2021- Tutorial 01 - 04
Wed. 01 Dec 2021

Wed. 08 Dec 2021 (Virtual) Excursion (2021Busi-X01-EM):
Recruitment Training Schneider Electric

Thu 09 Dec 2021 Quiz – multiple choice, online (available 24h)

Wed. 15 Dec 2021 Examination: Presentations, 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).
- [7] 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 Law (6 ECTS)

**Prof. Dr. iur. Dr. rer. pol. Dres. h.c.
Franz Jürgen Säcker Hon.Ph.D.(PCCC)**
Technische Universität Berlin
Academic Director
MBL European and International Energy Law



Aims and Scope

The students will learn about the fundamentals of Civil, Private and Commercial Law and will recognize the fundamentals of Public Law and its role in regulate the transport-related industry. Finally, the students will get acquainted to the governance and regulatory framework of today's transport systems, on the i) global, ii) EU and iii) German levels.

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 v. regional developments; environmental law; state aid.

Examination (6 ECTS, graded)

Law paper, 10 pages, graded

Schedule

Fri. 28 Jan 2021- Lecture 01 - 04
Sat. 12 Feb 2022

Thu. 27 Jan 2021- Tutorial 01 - 03
Sat. 19 Feb 2022

Wed. 09 Feb 2022 Case Study (2021Law-X02-EM): ib voigt GmbH
Hussein Fahmy: Various measures / regulations (feed-in-tariff, net-metering/ energy subsidies which are not favorable for RE) in the different markets around the world

Thu. 24 Feb 2022 (Virtual) Company Case Study (2021Law-X03-EM):
Ponton GmbH

Sat. 19 Feb 2022 - Paper, 10 pages, graded

Wed. 02 Mar 2022 Prof. Franz Jürgen SÄCKER

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

April 2022

Summer semester 2022

Duration of semester:	01.04.2022 - 30.09.2022
Lecture period:	19.04.2022 - 23.07.2022
Lecture-free period:	public holidays
Re-registration :	by 19.02.2022

Second Semester

SuSe 2022



Module Management (12 ECTS)

Prof. Dr. Søren Salomo

Chair of Technology and Innovation Management

Sekr. H71, Room H 7104

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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 and taking into account 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 and energy management.

Examination (12 ECTS, graded)

Written task (40P)

Oral presentation (40P)

Written test (20P)

Schedule Core Part

Fri. April 22 2022 09.30 – 11.00	Lecture 1: Introduction (2021Mgmt-L01-CORE) Introduction Prof. Dr. Dodo zu Knyphausen-Aufseß
11.15 – 12.45 / 13.45 – 17.00	Fundamentals of Project Management Examination Introduction I Prof. Dr. Søren Salomo
Sat. April 23 2022 09.30 – 17.00	Lecture 2: Technology and Innovation Management (2021-Mgmt-L02-CORE) Technology and Innovation Management Examination Introduction II Prof. Dr. Søren Salomo & Dr. Birgit Peña
Wed. April 27 2022 15.30 – 17.00	2021-Mgmt-CCE-CORE Centre for Entrepreneurship

Fri. April 29 2022	Lecture 3: Quantitative Methods for a Project Plan (2021-Mgmt-L03-CORE)
09.30 – 17.00	Quantitative Methods for a Project Plan Prof. Dr. Thomas VOLLING & Kristian BÄNSCH
Sat. April 30 2022	Lecture 4: Technology and Innovation Management (2021-Mgmt-L04-CORE)
09.30 – 17.00	Technology and Innovation Management Prof. Dr. Søren Salomo & Dr. Birgit Peña
Sat. May 07 2022	Lecture 5: Technology and Innovation Management (2021-Mgmt-L05-CORE)
09.30 – 17.00	Technology and Innovation Management Prof. Dr. Søren Salomo

Thu, May 12, 2022 Examination: Quiz, written (20P)

Thu, June 16, 2022 Examination: Handing in of P2P (10P)

Sat, June 25, 2022 Examination: Handing in of Report (30P)

Fri, July 01, 2022 Examination: Oral (40P) Energy Management

Schedule Specialized Part

Wed. April 27 2022	Tutorial 1&2: Mngmt Communication (2021Mgmt-T01&02-EM)
08.00 – 12.00	2021Mgmt-T01-EM:Mngmt Communication Bettina BROCKMANN
13.00 – 14.30	2021Mgmt-T02-EM: Project Management Methods & Tools Sarah Drewning
Wed. May 04 2022	Tutorial 3&4: Mngmt Communication (2021Mgmt-T03&04-EM)
08.00 – 12.00	2021Mgmt-T03-EM:Mngmt Communication Bettina BROCKMANN
13.00 – 17.00	2021Mgmt-T04-EM: Project Plans: Calculation Logic, Market Potentials & Channel Approaches Byron Stuntz
Wed. May 18 2022	Tutorial 5&6: Mngmt Communication (2021Mgmt-T05&06-EM)
08.00 – 12 / 13 – 17.00	Mngmt Communication Bettina BROCKMANN
Fri. May 06 2022	Lecture 6: Introduction to Energy Management & Germany's 'Energiewende' – State of Affairs (2021-Mgmt-L06-EM)
09.30 – 17.00	Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER Prof. Dr. rer. pol. Georg ERDMANN
Fri. May 20 2022	Lecture 7: Energy Sector Management I (2021-Mgmt-L07-EM)
09.30 – 17.00	Dr. Christian NABE

Fri. May 27 2022	Lecture 8: Business Operations in the Energy Sector (2021-Mgmt-L08-EM)
09.30 – 17.00	Prof. Dr. Thomas VOLLING & Kristian BÄNSCH
Fri. June 10 2022	Lecture 9: Energy Sector Management II (2021-Mgmt-L09-EM)
09.30 – 17.00	Dr. habil. Hans-Günter SCHWARZ
Saturday, June 11, 2022	Lecture 10: Energy Sector Management III (2021-Mgmt-L10-EM)
09.30 – 17.00	Dr. habil. Hans-Günter SCHWARZ

Literature

[1] tba

Module Investments (6 ECTS)

Prof. Dr. Christian von Hirschhausen

Chair Workgroup for Infrastructure Policy (WIP)

Berlin University of Technology

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Aims and Scope

This module looks at the aspects of 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; and 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. 10 pages

Schedule

Wed. 11 May 2022	Tutorial 1: Investment Simulations (2021Invm-T01-EM) Dr. Jens WEIBEZAHN
Fri. 13 May 2022	Lecture 1: Introduction to Investments (2021Invm-L01-EM) Introduction to Investments Prof. Dr. Christian VON HIRSCHHAUSEN, Theoretical Background, Risk, Markets Dr. Jens WEIBEZAHN
Sat. 14 May 2022	Lecture 2: Investments II Investment Simulations (2021Invm-L02-EM) Dr. Dipl.-Ing. Jens WEIBEZAHN
Sat. 21 May 2022	Lecture 3: Investments III Risk Management in Energy Markets and Investments in Renewables (2021Invm-L03-EM) Dr. Florian LEUTHOLD

- Wed. 25 May 2022** **Tutorial 2: Fundamental Modeling I (2021Invm-T02-EM)**
Introduction to Optimization, Dispatch Modeling in Excel
Dr. Jens WEIBEZAHN
Company Presentation: Deutsche Bank (2021Invm-X01-EM)
- Sat. 28 May 2022** **Lecture 4: The Role of Electricity Transmission Infrastructure (2021Invm-L04-EM)**
Dr. Clemens GERBAULET, Dr. Jens WEIBEZAHN
- Wed. 01 June 2022** **Tutorial 3: Fundamental Modeling II (2021Invm-T03-EM)**
Dr. Jens WEIBEZAHN
Company Presentation: IEG Banking (2021Invm-X02-EM)
- Mon. 13 Jun 2022** **Examination (written, duration: 90 minutes)**
Exam topics will be announced on 07/06/22

Literature

- [1] Kirschen, Daniel and Strbac, Goran (2019): Fundamentals of Power System Economics
- [2] Stoft, 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

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Aims and Scope

This module deals with 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 to present options for the optimization of 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 and micro smart grids.

Examination (6 ECTS, graded)

Written exam

Schedule (MBA Energy Management)

Fri. 03 Jun 2022	Lecture 1: Intro - Introduction into Energy Grids, Energy Networks and Sector Coupling (2021Netw-L01-EM)
09.30 – 17.00	Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER
Sat. 04 Jun 2022	Lecture 2: Electricity Grids (2021Netw-L02-EM)
09.30 – 17.00	Prof Dr.-Ing. Kai STRUNZ (TU Berlin)
Wed. 08 Jun 2022	Tutorial 1: Energy Grids, Energy Networks and Sector Coupling (2021Netw-T01-EM)
08.00 – 12.00	M.Sc. Benjamin GROSSE (IKEM)
13:00 – 14:30	Company Presentation: EASE The European Association for Storage of Energy (2021Netw-X01-EM)
	Jacopo TOSONI
15:00 – 16:30	Company Presentation DSO: Stromnetz Berlin (2021Netw-X02-EM)
	Michael DÖRING

Wed.15 Jun 2022 09:30 – 12:45	Tutorial 2: Electricity Grids (2021Netw-T02-EM) M.Sc. Christian WIEZOREK (TU Berlin)
Fri. 17 Jun 2022 09.30 – 17.00	Lecture 3: Grid Operation & Management (2021Netw-L03-EM) Dr. Mattias MÜLLER-MIENACK (DN VGL)
Sat. 18 Jun 2022 09.30 – 12.45 13:45 – 17:00	Lecture 4: Grid Operation & Management (Energy and Transport Grids, E-Mobility (2021Netw-L04- EM) Prof. Dr.-Ing. Dietmar GÖHLICH (TU Berlin) (tbc) Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER
Mon. 20 Jun 2022	Virtual Excursion: Grid Operation & Management GridLab, DN VGL (2021Netw-X03-EM) Session 01 (max 20 participants)
Tue. 21 Jun 2022	Virtual Excursion: Grid Operation & Management GridLab, DN VGL (2021Netw-X03-EM) Session 02 (max 20 participants)
Wed. 22 Jun 2022 09:30 – 13:45 14:00 – 17:00	Tutorial 3&4 (2021Netw-T03&04-EM) Tutorial 3: Energy Grids (2021Netw-T03-EM) M.Sc. Benjamin GROSSE (IKEM) Tutorial 4: Transport Grids & E-Mobility (2021Netw-T04-EM) M.Sc. Sebastian WILLEMSSEN (Consentec)
Wed. 29 Jun 2022	Graded examination (written, duration: 2 h) (2021Netw-EXAM-EM)

Module Regulation (6 ECTS)

Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER

Academic Director

Institute Technologie und Management (ITM)

Faculty Wirtschaft und Management

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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, to assess the significance and effects of regulation on the energy system on the one hand and on companies on the other, and to 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, and energy markets

Examination (6 ECTS, ungraded) Portfolio

Schedule (MBA Energy Management)

Fri. 24 Jun 2022	Lecture 1: Introduction into Regulation (2021Regu-L01-EM)
09.30 – 17.00	Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER
Thu. 30 Jun 2022	Tutorial 1: Academic Writing (2021Regu-T01-EM)
Published on Moodle	Benjamin GROSSE (should be watched until 2022-07-11)
Sat. 02 Jul 2022	Lecture 2: Regulation of Energy Grids – the EU Level (2021Regu-L01-EM)
09.30 – 17.00	Dr. Susanne NIES (Smartwires)
Wed. 06 Jul 2022	Tutorial 2: Academic Writing in the Context of Regulations (2021Regu-T02-EM)
09.30 – 12.45	Dr. Simon SCHÄFER-STRADOWSKY (IKEM)
14:00 – 15:30	Company Presentation: Bundesverband Erneuerbare Energie e.V. (BEE) (2021Regu-X01-EM) Max OSTER (tbc)
Fri. 08 Jul 2022	Lecture 3: Regulation of Energy Grids – the National Level (2021Regu-L03-EM)
09.30 – 17.00	Dr. Bodo HERRMANN (BNetzA)
Sat. 09 Jul 2022	Lecture 4: Regulation of Energy Grids – the Business Level (2021Regu-L04-EM)
09.30 – 17.00	Dr. Oliver FRANZ (E.ON)

Wed. 13 Jul 2022 09:30 – 11:30	Company Presentation (2021Regu-X02&03-EM) Company Presentation: ACER - European Agency of the Energy Regulators (2021Regu-X02-EM) Ernst TREMMEL, Legal Officer
13:00 – 14:30	Company Presentation: ENTSO-E (2021Regu-X03-EM) Stela NENOVA and Luca NUVOLI
Fri. 15 Jul 2022	Student Presentations
Sat. 16 Jul 2022	Student Presentations
Wed. 20 Jul 2022 10:00 – 12:00	2021Regu-X04&05-EM Excursion: TenneT Virtual Vision (2021Regu-X04-EM) (tbc)
15:00 – 16:30	Company Presentation: Company Presentation: CORESO (2021Regu-X05-EM) Regional Security Operator, Carole DERUYCK
Mon. 11 Jul. 2022 to Sat. 23 Jul 2022 (23:59)	Paper, 10 pages Hand in: 2021Regu-EXAM-EM: Regu-Paper

Third Semester

Wise 2022- 23



Elective Modules (6ECTS + 6ECTS)

Aims and Scope

In their last module, 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 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 to be capable to address a problem from their study program independently, based on scientific methods, within a specific deadline. Once registered for the thesis, students have four months to conclude.

Schedule

To start the master thesis, 60 CP must have been gathered; this equals successful completion of all mandatory modules M1-M8. Technically, the earliest starting date is hence 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
Sarah Drewning, M.A. & Gernot Bohmann, M.Sc

Graduation Ceremony MBA Energy Management 2020-22

22 July 2022
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








<p>Dr. Dawud Ansari Economist at DIW Berlin Director at EADP Lecturer / Consultant</p>	
<p>Jun.-Prof. Dr. Karola BASTINI Assistant Professor Technische Universität Berlin Faculty of Economics and Management Institute of Business Administration</p>	
<p>Kristian BÄNSCH Research Assistant Technische Universität Berlin Chair of Production and Operations Management</p>	
<p>Prof. Dr. Justin BECKER Universität der Künste Berlin Berlin Career College</p>	
<p>Dr. Nadja BERSECK Trainer and Lecturer in Design Thinking and Business Model Design</p>	
<p>Lukas Bieber Head of department in the field of energy networks Bundesverband der Energie- und Wasserwirtschaft (BDEW)</p>	
<p>Gernot BOHMANN, M.Sc Academic Program Manager MBA Energy Management</p>	
<p>Dr. Maren BORKERT Assistant Professor Technical University Berlin Chair of Entrepreneurship and Innovation Management</p>	

<p>Bettina BROCKMANN, M.A. Lecturer AY-A, Communication Studies Program Manager Executive Education, Technische Universität München (TUM)</p>	
<p>Christian BUSCH, M.Sc. , MBA Head of Digital Infrastructure, Moysies & Partner</p>	
<p>Dr. Volker BÜHNER Head of Business Unit Energy KISTERS AG</p>	
<p>Dipl.-Wirtsch.-Ing. Lars DITTMAR IKEM Institut für Klimaschutz, Energie und Mobilität e.V.</p>	
<p>Sarah DREWNING, M.A. Academic Program Manager MBA Energy Management</p>	
<p>Sarah DROLL, MBA Senior Manager Business Integrity and Corporate Compliance EY</p>	
<p>Sarah ELSHEIKH, M.Sc. Field Protection Assistant Danish Refugee Council / Dansk Flygtningehjælp</p>	
<p>Prof. Dr. rer.pol. Georg ERDMANN Head of Department (a.D.) Berlin University of Technology Department of Energy Systems</p>	

<p>Prof. Dr. Gioia FALCONE Rankine Chair - Professor of Energy Engineering University of Glasgow, Imperial College London</p>	
<p>Dr. Oliver Helge FRANZ Regulatory Manager, Head of Regulatory Services and Regulatory Strategy RWE Deutschland AG, innogy SE</p>	
<p>Dr. Clemens GERBAULET Project Manager Business Development HanseWerk AG</p>	
<p>Prof. Dr.-Ing. Dietmar GÖHLICH Head of MPM Methods of Product Design and Mechatronics TU Berlin</p>	
<p>Benjamin GROSSE Research Associate Berlin University of Technology Chair for Energy and Resource Management</p>	
<p>Dr. Frank Peter HANSEN Senior Manager Tennet TSO GmbH Former Bundesnetzagentur</p>	
<p>Dr. Bodo HERRMANN Head of Unit: Grid Development / Expansion Bundesnetzagentur</p>	

<p>Prof. Dr. Christian VON HIRSCHHAUSEN Economic Policy and Infrastructure Policy Berlin University of Technology DIW Berlin (German Institute for Economic Research) Massachusetts Institute of Technology</p>	
<p>Peter HOHAUS Senior Policy Advisor Uniper SE</p>	
<p>Steven HOTOPP, M.Sc. Research Associate Berlin University of Technology Chair for Energy and Resource Management</p>	
<p>Prof. Dr. Dodo ZU KNYPHAUSEN-AUFSESS Strategic Leadership and Global Management Berlin University of Technology</p>	
<p>Dr. Oliver KOCH Deputy Head of Section DG Energy-European Commission</p>	
<p>Dr. Carsten KÖNIG Academic Officer University of Cologne Chair for Civil Law, Competition Law, Regulatory Law, Law of the Digital Economy</p>	
<p>Dr. Armin KRAFT CEO EEB Enerko</p>	

<p>Dr.-Ing. Maren KUSCHKE Research Associate Berlin University of Technology Sustainable Electric Networks and Sources of Energy</p>	
<p>Dr. Florian LEUTHOLD Vortex Energy Group, COO TU Berlin</p>	
<p>Prof. Dr. Roland MENGES TU Clausthal, Institute of Management and Economics Department of Macroeconomics</p>	
<p>Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER Academic Director MBA Energy Management Energy and Resources Management Berlin University of Technology Institute of Technology and Management Energy and Resource Management</p>	
<p>Dr. Christian NABE Associate Director ECOFYS Energy Systems and Markets</p>	
<p>Dr. Susanne NIES General Manager Germany SMART WIRES Inc.</p>	

<p>Prof. Dr.-Ing. Aaron PRAKTIKNJO Assistant Professor RWTH Aachen University Chair of Energy Resource and Innovation Economics/E.ON ERC Energy Research Center</p>	
<p>Prof. Dr. Søren SALOMO Institute of Technology and Management Technology and Innovation Management</p>	
<p>Prof. Dr. Dr. Dres. h.c. Franz Jürgen SÄCKER Academic Director Energy Law MBL enreg Institute for Regulatory and Energy Law Berlin</p>	
<p>Prof. Dr. Lydia SCHOLZ Economic and Business Law Hochschule Bremen</p>	
<p>Dr. habil. Hans-Günter SCHWARZ Electricity Market Modelling New Business RWE Supply and Trading RWE</p>	
<p>Dr. Simon Schäfer-Stradowsky Head and CEO of ikem</p>	
<p>Stephan Seim, M.Sc. Research Associate TU Berlin, Energy and Resource Management</p>	

<p>Dr. Juliane STEFFENS, LL.M. (Harvard) Freie Universität Berlin FUB Lecturer, Coordinator – Master of International and European Energy Law, TU Berlin</p>	
<p>Prof. Dr.-Ing. Kai STRUNZ Head of Department Sustainable Electric Networks and Sources of Energy Berlin University of Technology</p>	
<p>Byron Stuntz, MBA Energy Management Expert; passionate about technology, data and digital resources, consultancy, Environmental Law, Foreign Diplomacy, Policy Development and International Relations</p>	
<p>Prof. Dr. Thomas VOLLING Head of Department Technische Universität Berlin Chair of Production and Operations Management</p>	
<p>Dr. Maximilian WACHTER Strategic assistant of the CEO at PHOENIX group - Integrated Healthcare Provider</p>	
<p>Dr. Jens WEIBEZAHN (Dipl.-Ing.) Research Associate Berlin University of Technology</p>	
<p>Christian WIEZOREK, M.Sc. Research Assistants and Doctoral Candidate Berlin University of Technology</p>	

Sebastian WILLEMSEN, M.Sc.
Consultant
Consentec GmbH

