ENERGY MANAGEMENT
MBA

Intake 2019 – 2021

Winter Semester 2019 / 2020
Summer Semester 2020

Last update on: March 11, 2020
THIS PUBLICATION REFLECTS THE STATE OF PLANNING AT THE TIME OF PRINTING. CHANGES MAY OCCUR.
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 Coordinator

Jeannette PABST
Academic Coordinator

Sandra LUBAHN
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/

Sarah DREWNING, M.A.
Academic Coordinator
drewning@campus.tu-berlin.de

Sandra LUBAHN
Administrative Manager
sandra.lubah@campus.tu-berlin.de

Jeannette PABST, M.A., M.Sc.
Academic Coordinator
j.pabst@campus.tu-berlin.de
Modular Structure

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 practises, primarily of grid-based utilities, and investment; the third semester broadens the view while simultaneously focusing on practise 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.
Outline

Location and Times

Lectures, tutorials, consultancy and company presentations take place at House 9, EUREF-Campus, 10829 Berlin, room S5 / at the TUB Main Campus, Main Building H, room 3010 or as announced via Moodle.

Lectures

Lectures are held by professors and academic staff of TU Berlin and other universities, and by professionals of the energy industry. They convey the core teachings. Group work is frequent. Homework may be assigned. Lectures start on time!

9.30 – 12.45
13.45 – 17.00

Tutorials / Company Visits

<table>
<thead>
<tr>
<th>Tutorials</th>
<th>Company Visits</th>
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<tbody>
<tr>
<td>08.00 - 12.00, 13.00 – 17.00</td>
<td>14.00 – 16.00 or Day Trip</td>
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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 S5, 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 for Beginners Class

Level A1.1
Level B1.1

Language classes incur a small additional fee. Advanced language classes are available, for which the taking of a test is mandatory.

E-Learning Platform ‘Moodle’ and WirelessLAN

Information System for Instructors and Students (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.
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.

Grading scale

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

2019-20
EUREF Master Programs
Orientation Week

October 7th – October 11th
Main Campus Charlottenburg, EUREF Campus

Campus Tour, Berlin Tour, Library Insights,
Get Togethers, Administrative Duties

Opening, 11th October, 4pm – 6pm
Lichthof / Atrium TU Berlin, Str. des 17. Juni 135, 10623 Berlin

Welcome Addresses Academic Directors
Music, Refreshments

MBA Program First Lecture

October 18th 2019, 9.30am–5.30pm
Module 01 Technology

Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER
Academic Director
Institute Technologie und Management (ITM)
Faculty Wirtschaft und Management
sec. FH 5-3, Room FH 503
Fraunhoferstraße 33-36, 10587 Berlin
+49 (0) 30 314-23214
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
Energy physics and energy technologies; thermodynamics; mechanics; chemical processes; Carnot engines and cycles; fossil fuels and renewable energy sources; conversion technologies; recent global and local developments; storage and transport technologies; electrical engineering; grids; transitions and trends.

Schedule

Fri. 18/10/19  Lecture: Introduction – Energy and Energy Markets
              Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER

Sat. 19/10/19  Lecture: Renewable Energy Sources
              Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER

Must attend one tutorial according to prior registration:
Mon. 21/10/19  Tutorial (Group I): Thermodynamics, Renewables
               M.Sc. Benjamin GROSSE
Tue. 22/10/19  Tutorial (Group II): Thermodynamics, Renewables
               M.Sc. Benjamin GROSSE
Wed. 23/10/19  Tutorial (Group III): Thermodynamics, Renewables
               M.Sc. Benjamin GROSSE

Fri. 25/10/19  Lecture: Power Grids and Dynamic Grid Control
              Prof. Dr.-Ing. Kai STRUNZ
Must attend one tutorial/company visit according to prior registration:

Mon. 28/10/19  Tutorial (Group I): Power Grids
M.Sc. Christian WIEZOREK
Company Visit: Vattenfall Berlin

Tue. 29/10/19  Tutorial (Group II): Power Grids
M.Sc. Christian WIEZOREK

Wed. 30/10/19  Tutorial (Group III): Power Grids
M.Sc. Christian WIEZOREK
Company Visit: Vattenfall Berlin

Fri. 10/01/20  Lecture (Specialized): Fossil Fuels, Petroleum Engineering I
Prof. Dr.-Ing. Gioia FALCONE

Sat. 11/01/20  Lecture (Specialized): Fossil Fuels, Petroleum Engineering II
Prof. Dr.-Ing. Gioia FALCONE

Wed. 15/01/20  Tutorial (Specialized): Fossil Fuels, Petroleum Engineering
M.Sc. Steven HOTOPP

Fri. 17/01/20  Lecture (Specialized): Wind
Dr. Philipp SCHMAGOLD; Hanno SALECKER

Wed. 22/01/20  Tutorial (Specialized): Wind
Dipl. Ing. Lisa Hermann

Wed. 29/01/20  Company Visit: SENSE Lab, TU Berlin

Sat. 15/02/10  Exam, 09.30 – 11.30, written, 120 minutes, graded
Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER

Literature
Module 02 Economics

Prof. Dr. rer.pol. Georg ERDMANN
Head of Department
Berlin University of Technology
Department of Energy Systems
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 energy 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.

Schedule
Fri. 01/11/19 Lecture: Microeconomics, History of Economic Thought
Prof. Dr. Roland MENGES

Sat. 02/11/19 Lecture: Microeconomics, Macroeconomics
Prof. Dr. Roland MENGES

Must attend one tutorial according to prior registration:
Mon. 04/11/19 Tutorial (Group I): Microeconomics, Macroeconomics
Sarah ELSHEIKH, M.Sc.

Tue. 05/11/19 Tutorial (Group II): Microeconomics, Macroeconomics
Sarah ELSHEIKH, M.Sc.

Wed. 06/11/19 Tutorial (Group III): Microeconomics, Macroeconomics
Sarah ELSHEIKH, M.Sc.

Fri. 08/11/19 Lecture: Financial Economics
Prof. Dr. rer. pol. Georg ERDMANN
Must attend one tutorial / company visit according to prior registration:

Mon. 11/11/19  Tutorial (Group I): Financial Economics
Sarah ELSHEIKH, M.Sc.
Company Visit (Group I): Siemens/Windnode

Tue. 12/11/19  Tutorial (Group II): Financial Economics
Sarah ELSHEIKH, M.Sc.
Tutorial (Group III): Financial Economics
Sarah ELSHEIKH, M.Sc.

Wed. 13/11/19  Company Visit (Group II): Siemens/Windnode
Company Visit (Group III): Siemens/Windnode

Thu. 21/11/19  Lecture: Environmental Economics
(shifted to Thu. 31/10/19)
Prof. Dr. Aaron PRAKTIKNJO

Sat. 23/11/19  Lecture (Specialized): Economics I
Prof. Dr. rer. pol. Georg ERDMANN
Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER

Must attend one company presentation according to prior registration:

Mon. 25/11/19  (Group I) Company Presentation (14.00 – 17.00)
ÖKOTEC Energiemanagement GmbH

Tue. 26/11/19  (Group II) Company Presentation (14.00 – 17.00)
ÖKOTEC Energiemanagement GmbH

Wed. 27/11/19  (Group III) Company Presentation (14.00 – 17.00)
ÖKOTEC Energiemanagement GmbH

Fri. 06/12/19  Tutorial (Specialized): Exercises on Fundamentals of
Energy Economics
Lars DITTMAR

Wed. 11/12/19  Exam, 9:30 – 11.00, written, 90 minutes, graded
Prof. Dr. rer. pol. Georg ERDMANN

Literature
South-Western, Cengage Learning, 2012
Module 03 Business

Prof. Dr. Dodo zu Knyphausen-Aufseß
Chairman Strategic Leadership and Global Management
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
In this module, students learn the fundamentals of strategic management and the basic tools and applications used in the energy sector. Students are taught to apply this knowledge independently to selected cases.

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.

Schedule

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<th>Date</th>
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<tr>
<td>Sat. 26/10/19</td>
<td>Lecture: Basics of Business Administration &amp; Corporate Governance (Business I)</td>
<td>Prof. Dr. Dodo ZU KNYPHAUSEN-AUFSESS</td>
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<tr>
<td>Fri. 15/11/19</td>
<td>Company Presentation &amp; Study Case: Ernst &amp; Young (10.00 – 11.00)</td>
<td>Tutorial: Presentation Techniques (12.00 – 16.00)</td>
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<td>Bettina BROCKMANN / Sarah DREWNING, M.A. / Mariam ELSHEIKH, M.Sc.</td>
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<tr>
<td>Sat. 16/11/19</td>
<td>Lecture: Corporate and Business Management (Business II)</td>
<td>Prof. Dr. Dodo ZU KNYPHAUSEN-AUFSESS</td>
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Must attend one tutorial/company visit according to prior registration:

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<tr>
<th>Date</th>
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<tr>
<td>Mon. 18/11/19</td>
<td>(Group I) Company Visit &amp; Study Case: BWB (12.30 – 14.30)</td>
<td>Tutorial: Business Frameworks and Planning Techniques (15.00 – 19.00) Dr. Nadja BERSECK</td>
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<tr>
<td>Tue. 19/11/19</td>
<td>(Group II) Company Visit &amp; Study Case: BWB (12.30 – 14.30)</td>
<td>Tutorial: Business Frameworks and Planning Techniques (15.00 – 19.00) Dr. Nadja BERSECK</td>
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<tr>
<td>Wed. 20/11/19</td>
<td>(Group III) Company Visit &amp; Study Case: BWB (12.30 – 14.30)</td>
<td>Tutorial: Business Frameworks and Planning Techniques (15.00 – 19.00) Dr. Nadja BERSECK</td>
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Fri. 22/11/19  Lecture: Corporate and Business Management (Business III)  
Prof. Dr. Dodo ZU KNYPHAUSEN-AUFSESS  
Topic Assignment Presentations

Must attend one tutorial according to prior registration:
Mon. 25/11/19  (Group I) Tutorial: Business Ethics  
Sarah DROLL
Tue. 26/11/19  (Group II) Tutorial: Business Ethics  
Sarah DROLL
Wed. 27/11/19  (Group III) Tutorial: Business Ethics  
Sarah DROLL

Fri. 29/11/19  Lecture: Marketing  
Prof. Dr. Justin BECKER

Sat. 30/11/19  Lecture: Accounting & Finance  
Jun.-Prof. Dr. Karola BASTINI

Must attend one tutorial according to prior registration:
Mon. 02/12/19  (Group I) Tutorial: Accounting & Finance  
Jun.-Prof. Dr. Karola BASTINI
Tue. 03/12/19  (Group II) Tutorial: Accounting & Finance  
Jun.-Prof. Dr. Karola BASTINI
Wed. 04/12/19  (Group III) Tutorial: Accounting & Finance  
Jun.-Prof. Dr. Karola BASTINI

Fri. 06/12/19  Quiz, online, 60 minutes

Sat. 7/12/19  Lecture (Specialized): Management in the Energy Sector  
Market Roles, Functions & Participants in Liberalised Energy Markets  
Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER

Fri. 13/12/19  Schneider Electric Recruitment Training

Sat. 14/12/19  Lecture (Specialized): Information Systems in the Energy Sector  
Dr. Volker BÜHNER

Fri. 20/12/19  Exam: Presentations, 8 hours, pass / fail  
Prof. Dr. Dodo ZU KNYPHAUSEN-AUFSESS  
Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER

Literature
Christmas Dinner and Celebration

Dec. 20\textsuperscript{th} 2019, 6pm
Berlin, Ellington Hotel
Module 04 Law

Prof. Dr. iur. Dr. rer. pol. Dres. h.c. Franz Jürgen Säcker Hon.Ph.D.(PCCC)
Academic Director
MBL European and International Energy Law
+49 (0)30 / 314 23 288
contact@master-in-energy.com

Aims and Scope
This module presents the legal framework of today's global, EU and German energy markets. Students learn to independently evaluate cases and summarize legal situations.

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.

Schedule

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<th>Date</th>
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<tr>
<td>Wed. 29/1/20</td>
<td>Tutorial Group I: Academic Writing Law</td>
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<td>Thekla HILLEBRECHT</td>
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<tr>
<td>Thu. 30/1/20</td>
<td>Tutorial Group II: Academic Writing Law</td>
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<td>Thekla HILLEBRECHT</td>
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<td>Fri. 31/1/20</td>
<td>Lecture: Introduction to Business Law</td>
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<td>Prof. Dr. Lydia SCHOLZ</td>
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<tr>
<td>Sat. 01/2/20</td>
<td>Lecture (Specialized): Introduction to European Union (Energy) Law</td>
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<td>Dr. Juliane STEFFENS</td>
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<tr>
<td>Wed. 05/2/20</td>
<td>Tutorial (Specialized): Introduction to EU Energy Law</td>
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<td>Thekla HILLEBRECHT</td>
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<td>Company Presentation: Ponton</td>
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<td>Fri. 07/2/20</td>
<td>Lecture (Specialized): The EU Legal Framework for Infrastructure Regulation</td>
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<td>Dr. Carsten KÖNIG</td>
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<tr>
<td>Sat. 08/2/20</td>
<td>Lecture (Specialized): EU Energy Law and Policy</td>
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<td>Dr. Oliver KOCH</td>
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<tr>
<td>Wed. 12/2/20</td>
<td>Tutorial (Specialized): Infrastructure Regulation</td>
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<td>Thekla HILLEBRECHT</td>
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<tr>
<td>Wed. 19/2/20</td>
<td>Company Visit (Specialized):</td>
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<td>European Energy Exchange Leipzig</td>
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Mon. 17/2/20 –
Wed. 26/2/20 Paper, 10 pages, graded
Prof. Franz Jürgen SÄCKER

Literature

Fair Visit: E-world energy & water
(11 – 13th February 2020)

Feb. 13th 2020
(Please see Moodle/ISIS for more information)
Read more

Exam Retakes

April 2020

Start of Summer Term

Lecture period
April 14, 2020 - July 18, 2020
Second Semester

Summer Semester 2020
Additional Course Academic Writing

Benjamin Grosse, M.Sc.
Emily Schneider, J.D., M.A.

Academic writing is clear, concise, focussed, structured and backed up by evidence. Its purpose is to aid the reader’s understanding.

Conducting scientific research and writing about it are two strands of the same job, and while the research can usually be done in your native language, the writing often can’t. English has become the scientific language of the 21st century. Non-native speakers are not only challenged by grammar, vocabulary, and punctuation; to get their results published, they also have to satisfy the peer-reviewers’ and readers’ expectations.

You will be enabled to move a step forward in producing well-written research. After the course, you will be more confident in your ability to write readable scientific English, know how to avoid common mistakes and what support is available and have a more detailed understanding of the writing process.

Methods
Seminaristic character as tutorials, Group work, work in pairs, individual writing, individual coaching, practical exercises.

This is an additional course offered outside of your regular coursework. Yet we strongly recommend taking advantage of this opportunity.

There will be two different subjects presented.

Benjamin Grosse will focus on academic writing in terms of structure, content, and most importantly citation.

Emily Schneider will focus on the actual process of writing, including mind mapping, sentence and paragraph creation, and peer-reviewing.

Registration will take place via Moodle/ISIS.

Benjamin Grosse

Mon. 20.04.2020 from 16.00 to 18.00 or Mon. 15.06.2020 from 16.00 to 18.00

and

Emily Schneider

Wed. 15.04.2020 from 17.30 – 19.30 or Thur. 16.04.2020 from 17.30 to 19.30

After successful completion of Emily Schneider’s base course, you may continue on to her workshops for more in depth practice.

Group I 06.05. & 20.05. from 17:30 to 19:30
Group II 13.05. & 27.05. from 17:30 to 19:30

Further details, including the selection procedure, will be published on Moodle.
Module 05 Management

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 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.

Schedule

Fri. 17/04/20 
Lecture: Introduction to Strategic, Project & Innovation Management
Prof. Dr. Dodo ZU KNYPHAUSEN-AUFSESS
Prof. Dr. Søren SALOMO
Prof. Julian WÉKEL

Sat. 18/04/20 
Lecture: Operations - Project Management - TIM
Prof. Dr. Søren SALOMO
Prof. Dr. Hans-Luidger DIENEL
Prof. Julian WÉKEL

Group Work Introduction and Assignment to Groups

20/04/ – 24/04/20 
Fair: Hannovermesse
(Please find further information on Moodle)

Wed. 22/04/20 
Tutorial (Specialized): Communication Training
Bettina Brockmann
Tutorial (Specialized): Creative Writing
Emily Schneider

Fri. 24/04/20 
Lecture: Quantitative Methods for a Project Plan
Prof. Dr. Thomas VOLLING
JProf. Dr. Karola BASTINI

Sat. 25/04/20 
Quiz on Lectures April, 17 & 18 (10%)
Lecture: Innovation Management
Prof. Dr. Søren SALOMO
Wed. 29/04/20  Tutorial (Specialized): Communication Training
Bettina Brockmann
Tutorial (Specialized): How to write a Project Plan
Dr. Nadja Berseck

Mon. 04/05/20  Lecture: Technology Management
Prof. Dr. Søren SALOMO

Wed. 06/05/20  Tutorial: Pitch Training / Inhouse Communication Training
Bettina Brockmann
Company Visit/Presentation (Specialized)
N.N.

Sat. 09/05/20  Lecture (Specialized): Introduction to Energy Management
Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER

Wed. 13/05/20  Examination 8.00 – 09.00 o’clock
Quiz, written on Innovation and Technology Management
Lectures (30 minutes) (30%)
Prof. Dr. Søren SALOMO

Fri. 15/05/20  Lecture (Specialized): Germany’s ‘Energiewende’ – State of Affairs
Prof. Dr. rer. pol. Georg ERDMANN

Sat. 16/05/20  Lecture (Specialized): Energy Sector Management I
Dr. Christian NABE

Wed. 20/05/20  Lecture (Specialized): Business Operations in the Energy Sector
Prof. Dr. Thomas VOLLING

Thu. 28/05/20  Lecture (Specialized): Energy Sector Management II
Visit to Battery Storage EUREF Campus
Dr. habil. Hans-Günter SCHWARZ

Fri. 29/05/20  Lecture (Specialized): Energy Sector Management III
Dr. habil. Hans-Günter SCHWARZ

Wed. 01/07/20  Examination: Handing in of Report (Voice-over PPT) (40%)

Fri. 17/07/20  Examination: Oral (20%), questions related to delivered report
Module 06 Investments

Prof. Dr. Christian von Hirschhausen
Chair Workgroup for Infrastructure Policy (WIP)
Berlin University of Technology
Straße des 17. Juni 135, D-10623 Berlin
+49-(0)30-314 25 048
cvh@wip.tu-berlin.de

Aims and Scope
This module looks at aspects of investment decisions in the context of long-term energy infrastructure (networks, storage facilities, and power plants) from a decision-maker's perspective. Students will be proficient in the basic methods of investment calculations and common financial instruments and forms of financing. They will apply problem-solving skills in a critical and reflective manner to investment decisions and identify strategic approaches to solving complex problems. The knowledge they acquire will enable them to assess the pros and cons of various financial instruments in the context of investment projects and to use these to their advantage in making decisions. They will also be able to plan infrastructure projects and analyse risks.

Schedule

Fri. 22/05/20  Lecture and Integrated Course: Investment Intro
Prof. Dr. Christian VON HIRSCHHAUSEN, Dipl.-Ing. Jens WEIBEZAHN

Sat. 23/05/20  Lecture and Integrated Course: Investment II
Prof. Dr. Christian VON HIRSCHHAUSEN, Dipl.-Ing. Jens WEIBEZAHN

Wed. 27/05/20  Tutorial Fundamental Modelling Investments III
Dipl.-Ing. Jens WEIBEZAHN
Company Presentation: Deutsche Bank

Sat. 06/06/20  Lecture and Integrated Course: Investment IV
Prof. Dr. Christian VON HIRSCHHAUSEN, Dipl.-Ing. Jens WEIBEZAHN

Fri. 12/06/20  Lecture: Investments in Renewables
Dr. Florian LEUTHOLD

Wed. 17/06/20  Tutorial Fundamental Modelling Investments V
Dipl.-Ing. Jens WEIBEZAHN
Company Presentation: IEG - Investment Banking Group

Fri. 26/06/20  Examination (written, duration: 90 minutes)
Exam Topics will be announced beforehand

Sat. 27/06/20  Difficult Dialogue: Mediation / Training Workshop together with Competence Center for Nature Conservation and Energy Transition KNE
Module 07 Energy Grids

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 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.

Schedule

Fri. 05/06/20  Lecture: Semester Intro & Energy Grids Overview
                Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER

Mon. 08/06/20- Tue. 09/06/20  Planned Excursion (tba)

Wed. 10/06/20  Tutorial Intro & Energy Grids Overview
                N.N.

Fri. 19/06/20  Lecture: Electricity Grids
                Prof Dr.-Ing. Kai STRUNZ

Sat. 20/06/20  Lecture: Grid Management and Operation
                Dr. Mattias MÜLLER-MIENACK

Wed. 24/06/20  Tutorial on Electricity Grids, Grid Management and Operation
                N.N.

Fri. 10/07/20  Lecture: Energy and Transport Grids
                Prof. Dr.-Ing. Dietmar GÖHLICH
                Lecture: Sector Coupling
                Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER

Wed. 15/07/20  Tutorial on Sector Coupling
                Benjamin GROSSE, M.Sc.

Fri. 22/07/20  09.00 – 11.00 o’clock
                Graded examination (written, duration: 2 h)
Module 08 Regulation

Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER
Academic Director
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Faculty Wirtschaft und Management
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+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, 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.

Schedule

Sat. 13/06/20 Lecture: Introduction into regulation
Prof. Dr. Klaus HEINE

Wed. 01/07/20 Tutorial: Introduction into regulation
N.N.
Excursion: TenneT Virtual Vision

Fri. 03/07/20 Lecture: Regulation of energy grids – the EU level
Dr. Susanne NIES

Sat. 04/07/20 Lecture: Regulation of energy grids - the National level
Dr. Bodo HERRMANN

Wed. 08/07/20 Tutorial: Regulation of energy grids – the EU and the national level
N.N.

Sat. 11/07/20 Lecture: Regulation of energy grids – the Business level
Dr. F-P. HANSEN
Lecture: Regulation of energy grids – Wrap up
Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER

Wed. 15/07/20 Tutorial – Wrap up
N.N.

Wed. 24/07/20 Oral discussion 20%
Oral presentation 60%
Presentation materials / written composition (term paper) 20%
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, 62 CP must have been gathered; this equals successful completion of all mandatory modules M1-M7. 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.

Wed. 13/05/20
AND/OR
Wed. 03/06/20
(10.00 – 12.00 o’clock)
Tutorial/FAQ: Preparation for Master Thesis and Term III

Graduation Ceremony MBA Energy Management 2018-20

July 24th 2020
Lichthof TU Berlin
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

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<td><strong>Eleni-Aristea ALEVIZOU, MBL</strong></td>
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<td><strong>Julian ALEXANDRAKIS</strong></td>
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<td><strong>Dr. Nadja BERSECK</strong></td>
<td>IZT – Institute for Futures Studies and Technology Assessment, Berlin</td>
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<td>Dr. Volker BÜHNER</td>
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<td>Dipl.-Wirtsch.-Ing. Lars DITTMAR</td>
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<td>Sarah DREWNING, M.A.</td>
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<td>Prof. Dr. Gioia FALCONE</td>
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<td>Dr. Bodo HERRMANN</td>
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<td>Prof. Dr. Lydia SCHOLZ</td>
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<td>Hochschule Bremen</td>
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<td>Dr. Juliane STEFFENS, LL.M. (Harvard)</td>
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<td>Prof. Dr.-Ing. Kai STRUNZ</td>
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<td>Head of Department</td>
<td>Sustainable Electric Networks and Sources of Energy</td>
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<tr>
<th><strong>Christian WIEZOREK, M.Sc.</strong></th>
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