ENERGY MANAGEMENT
MBA

Intake 2019 – 2021

Winter Semester 2019 / 2020
Summer Semester 2020
Winter Semester 2020 / 2021

Last update on: June 9, 2020
THIS PUBLICATION REFLECTS THE STATE OF PLANNING AT THE TIME OF PRINTING. CHANGES MAY OCCUR.

TUBS GmbH
TU Berlin ScienceMarketing
Hardenbergstraße 19
10623 Berlin
Deutschland
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
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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/

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Academic Coordinator
drewning@campus.tu-berlin.de

Sandra LUBAHN
Administrative Manager
sandra.lubahn@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 practice 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>
</tr>
</thead>
<tbody>
<tr>
<td>08.00 - 12.00, 13.00 – 17.00</td>
<td>14.00 – 16.00 or Day Trip</td>
</tr>
</tbody>
</table>

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>
<thead>
<tr>
<th>Grade</th>
<th>Assessment</th>
<th>Definition</th>
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<tbody>
<tr>
<td>1.0 / 1.3</td>
<td>Very good</td>
<td>Outstanding performance</td>
</tr>
<tr>
<td>1.7 / 2.0 / 2.3</td>
<td>Good</td>
<td>Performance above average requirements</td>
</tr>
<tr>
<td>2.7 / 3.0 / 3.3</td>
<td>Satisfactory</td>
<td>Complies with the average overall requirements</td>
</tr>
<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
ergymanagement@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
*Company Visit*: Vattenfall Berlin

**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**

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

Sat. 26/10/19  Lecture: Basics of Business Administration & Corporate Governance (Business I)
Prof. Dr. Dodo ZU KNYPHAUSEN-AUFSESS

Fri. 15/11/19  Company Presentation & Study Case: Ernst & Young (10.00 – 11.00)
Tutorial: Presentation Techniques (12.00 – 16.00)
Bettina BROCKMANN
Sarah DREWNING, M.A. / Mariam ELSHEIKH, M.Sc.

Sat. 16/11/19  Lecture: Corporate and Business Management (Business II)
Prof. Dr. Dodo ZU KNYPHAUSEN-AUFSESS

Must attend one tutorial/company visit according to prior registration:
Mon. 18/11/19 (Group I) Company Visit & Study Case: BWB (12.30 – 14.30)
Tutorial: Business Frameworks and Planning Techniques (15.00 – 19.00)
Dr. Nadja BERSECK

Tue. 19/11/19 (Group II) Company Visit & Study Case: BWB (12.30 – 14.30)
Tutorial: Business Frameworks and Planning Techniques (15.00 – 19.00)
Dr. Nadja BERSECK

Wed. 20/11/19 (Group III) Company Visit & Study Case: BWB (12.30 – 14.30)
Tutorial: Business Frameworks and Planning Techniques (15.00 – 19.00)
Dr. Nadja BERSECK
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. 20th 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

Wed. 29/1/20 Tutorial Group I: Academic Writing Law
Thekla HILLEBRECHT

Thu. 30/1/20 Tutorial Group II: Academic Writing Law
Thekla HILLEBRECHT

Fri. 31/1/20 Lecture: Introduction to Business Law
Prof. Dr. Lydia SCHOLZ

Sat. 01/2/20 Lecture (Specialized): Introduction to European Union (Energy) Law
Dr. Juliane STEFFENS

Wed. 05/2/20 Tutorial (Specialized): Introduction to EU Energy Law
Thekla HILLEBRECHT
Company Presentation: Ponton

Fri. 07/2/20 Lecture (Specialized): The EU Legal Framework for Infrastructure Regulation
Dr. Carsten KÖNIG

Sat. 08/2/20 Lecture (Specialized): EU Energy Law and Policy
Dr. Oliver KOCH

Wed. 12/2/20 Tutorial (Specialized): Infrastructure Regulation
Thekla HILLEBRECHT

Wed. 19/2/20 Company Visit (Specialized):
European Energy Exchange Leipzig
Mon. 17/2/20 –  
Wed. 26/2/20 Paper, 10 pages, graded  
Prof. Franz Jürgen SÄCKER

**Literature**


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

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

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**Exam Retakes**

April 2020

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**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

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
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>04/05/20</td>
<td>Lecture: Technology Management</td>
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<tr>
<td></td>
<td>Prof. Dr. Søren SALOMO</td>
</tr>
<tr>
<td>06/05/20</td>
<td>Tutorial: Pitch Training / Inhouse Communication Training</td>
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<td></td>
<td>Bettina Brockmann</td>
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<td></td>
<td>Company Visit/Presentation (Specialized) N.N.</td>
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<tr>
<td>09/05/20</td>
<td>Lecture (Specialized): Introduction to Energy Management</td>
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<td>Prof. Dr.-Ing. Joachim MÜLLER-KIRCHENBAUER</td>
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<tr>
<td>13/05/20</td>
<td>Examination 8.00 – 09.00 o’clock</td>
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<td></td>
<td>Quiz, written on Innovation and Technology Management</td>
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<td></td>
<td>Lectures (40 minutes) (40%)</td>
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<td>Prof. Dr. Søren SALOMO</td>
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<tr>
<td>15/05/20</td>
<td>Lecture (Specialized): Germany’s ‘Energiewende’ – State of Affairs</td>
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<td>Prof. Dr. rer. pol. Georg ERDMANN</td>
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<td>16/05/20</td>
<td>Lecture (Specialized): Energy Sector Management I</td>
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<tr>
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<td>Dr. Christian NABE</td>
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<td>20/05/20</td>
<td>Lecture (Specialized): Business Operations</td>
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<td>in the Energy Sector</td>
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<td>Prof. Dr. Thomas VOLLING</td>
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<tr>
<td>28/05/20</td>
<td>Lecture (Specialized): Energy Sector Management II</td>
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<td>Dr. habil. Hans-Günter SCHWARZ</td>
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<tr>
<td>29/05/20</td>
<td>Lecture (Specialized): Energy Sector Management III</td>
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<td>Dr. habil. Hans-Günter SCHWARZ</td>
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<tr>
<td>01/07/20</td>
<td>Examination: Handing in of Report (Voice-over PPT) (40%)</td>
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<tr>
<td>17/07/20</td>
<td>Examination: Oral (20%), questions related to delivered report</td>
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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 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.

Schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Activity</th>
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<tbody>
<tr>
<td>Fri. 22/05/20</td>
<td>Lecture and Integrated Course: Investment Intro</td>
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<tr>
<td></td>
<td>Prof. Dr. Christian VON HIRSCHHAUSEN, Dipl.-Ing. Jens WEIBEZAHN</td>
</tr>
<tr>
<td>Sat. 23/05/20</td>
<td>Lecture and Integrated Course: Investment II</td>
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<tr>
<td></td>
<td>Prof. Dr. Christian VON HIRSCHHAUSEN, Dipl.-Ing. Jens WEIBEZAHN</td>
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<tr>
<td>Wed. 27/05/20</td>
<td>Tutorial Fundamental Modelling Investments III</td>
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<tr>
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<td>Dipl.-Ing. Jens WEIBEZAHN</td>
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<td>Company Presentation: Deutsche Bank</td>
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<tr>
<td>Sat. 06/06/20</td>
<td>Lecture and Integrated Course: Investment IV</td>
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<tr>
<td></td>
<td>Dipl.-Ing. Jens WEIBEZAHN, Dr. Clemens GERBAULET</td>
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<tr>
<td>Fri. 12/06/20</td>
<td>Lecture: Investments in Renewables</td>
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<td>Dr. Florian LEUTHOLD</td>
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<tr>
<td>Wed. 17/06/20</td>
<td>Tutorial Fundamental Modelling Investments V</td>
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<tr>
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<td>Dipl.-Ing. Jens WEIBEZAHN</td>
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<td>Company Presentation: Thermondo</td>
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<tr>
<td>Fri. 26/06/20</td>
<td>Examination (written, duration: 90minutes)</td>
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<td>Exam Topics will be announced beforehand</td>
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<tr>
<td>Sat. 27/06/20</td>
<td>Difficult Dialogue: Mediation / Training Workshop together with</td>
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<td>Competence Center for Nature Conservation and Energy Transition KNE</td>
</tr>
</tbody>
</table>
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 - Planned Excursion (tba)

Tue. 09/06/20

Wed. 10/06/20  Tutorial Intro & Energy Grids Overview
               M.Sc. Christian WIEZOREK

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
               M.Sc. Christian WIEZOREK

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
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
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%
Third Semester

Winter Semester 2020-21
Module 09 Elective Modules

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.
<table>
<thead>
<tr>
<th>Dates</th>
<th>Module</th>
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<tbody>
<tr>
<td>03. 17. Dec 2020</td>
<td>Course Aims: The students will be able to define, evaluate, and analyze technical projects and structures such as buildings, factories, and urban districts. They do this by integrating the technological, economic, business, and legal operations in companies and organizations and by taking social responsibility and sustainable development into account.</td>
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<tr>
<td>07. 21. Jan 2021</td>
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<td>04. 02. Feb 2021</td>
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<td>04. 18. Dec 2020</td>
<td>Course Aims: The overall qualification goal of the module is to enable the students to plan, implement, and successfully complete projects economically, efficiently, and according to modern agile and classic management methods. At the end of the course, the students can act in the mediated roles in agile and classic projects, understand the essential project management processes, can generate central management documents themselves, and can apply and further deepen the methodology in future projects.</td>
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<td>15. 29. Jan 2021</td>
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<tr>
<td>12. 26. Feb 2021</td>
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<tr>
<td>Friday 13. 27. Nov 2020</td>
<td>EM: E3 Rural Electrification, Dr. Dawud Ansari, M.Sc.</td>
</tr>
<tr>
<td>11. 12. Dec 2020</td>
<td>Course Aims: Students can describe, analyze, and evaluate the role of developing and emerging countries in global energy systems as well as their local and regional challenges, peculiarities, and opportunities. Students are familiar with various off-grid technologies and can choose between them, including the use of suitable methods of integrative planning. Finally, students can act better in group projects, understand the process of development cooperation and can understand and design central elements in it, and are aware of their responsibility for global as well as local sustainable development.</td>
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<td>08. 22. Jan 2021</td>
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<td>05. 19. Feb 2021</td>
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<td>Tuesday 03. 17. Nov 2020</td>
<td>BuSu: E4 Integration of Renewable Energies, Dr. Caroline Schröder</td>
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<td>01. 01. Feb 2021</td>
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<td>14. 12. Dec 2020</td>
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<td>11. 25. Jan 2021</td>
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<td>08. 08. Feb 2021</td>
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<tr>
<td>Tuesday 10. 24. Nov 2020</td>
<td>SuMo: E7 Data Analysis and ICT in Mobility, Prof. Dr. Andreas Vogelsang (TU Berlin); Dr. Lisa Ruhrort (Berlin Social Science Center); Prof. Dr. Christian Hoffmann (e-fect); Robert Schönduwe (motiontag); Hamid Mostofi (TU Berlin)</td>
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<td>08. 08. Dec 2020</td>
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<td>05. 05. Jan 2021</td>
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<td>02. 02. Feb 2021</td>
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<tr>
<td>Wednesday 04. 18. Nov 2020</td>
<td>SuMo: E8 Urban and Transport Planning in Emerging Economies: Concepts and Experiences, Katy Huaylla and Henning Günter (Rupprecht Consult); Dr. Jürgen Perschon and Matthias Nüßgen (European Institute for Sustainable Transport); ICLEI/Ecomobility; Tobias Kuttler (TU Berlin/TU München), GIZ (tbc); Christoph Henseler (TU Berlin)</td>
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<tr>
<td>02. 16. Dec 2020</td>
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<td>13. 27. Jan 2021</td>
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<td>10. 10. Feb 2021</td>
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<tr>
<td>Wednesday 11. 25. Nov 2020</td>
<td>SuMo: E9 Business Models and Investments in Sustainable Mobility, Dr. Ulrike Engel-Ziegler (DB Station &amp; Service AG); Daniel Kurth (private consultant), Gabriele Grea (Bocconi University), Andreas Knie (Berlin Social Science Center); Oliviero Baccelli (Bocconi University)</td>
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<td>09. 09. Dec 2020</td>
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<td>06. 06. Jan 2021</td>
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<td>03. 03. Feb 2021</td>
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</table>
**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**
Tutorial/FAQ: Preparation for Master Thesis and Term III

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**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

<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Position</th>
<th>Institution/Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Julian ALEXANDRAKIS</td>
<td>Research Associate, Entrepreneurship Educator</td>
<td>Chair for Entrepreneurship and Innovation Management, TU Berlin</td>
</tr>
<tr>
<td>Dr. Dawud Ansari</td>
<td>Economist at DIW Berlin, Director at EADP, Lecturer/Consultant</td>
<td></td>
</tr>
<tr>
<td>Jun.-Prof. Dr. Karola BASTINI</td>
<td>Assistant Professor, Technische Universität Berlin, Faculty of Economics and Management, Institute of Business Administration</td>
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<tr>
<td>Prof. Dr. Justin BECKER</td>
<td>Assistant Professor, Technische Universität Berlin, Berlin Career College</td>
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<tr>
<td>Dr. Nadja BERSECK</td>
<td>Trainer and Lecturer in Design Thinking and Business Model Design</td>
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<tr>
<td>Dr. Maren BORKERT</td>
<td>Assistant Professor, Technical University Berlin, Chair of Entrepreneurship and Innovation Management</td>
<td></td>
</tr>
<tr>
<td>Bettina BROCKMANN, M.A.</td>
<td>Lecturer AY-A, Communication Studies, Program Manager Executive Education, Technische Universität München (TUM)</td>
<td></td>
</tr>
<tr>
<td>Christian Busch, M.Sc., MBA</td>
<td>Prokurist, Manager Consulting at KPMG</td>
<td></td>
</tr>
</tbody>
</table>
| **Dr. Volker BÜHNER**  
Head of Business Unit Energy  
KISTERS AG | ![Dr. Volker BÜHNER](image1.png) |
| **Dipl.-Wirtsch.-Ing. Lars DITTMAR**  
IKEM  
Institut für Klimaschutz, Energie und Mobilität e.V. | ![Dipl.-Wirtsch.-Ing. Lars DITTMAR](image2.png) |
| **Sarah DREWNING, M.A.**  
Academic Coordinator  
MBA Energy Management | ![Sarah DREWNING, M.A.](image3.png) |
| **Sarah DROLL, MBA**  
Senior Manager Business Integrity and Corporate Compliance  
EY | ![Sarah DROLL, MBA](image4.png) |
| **Sarah ELSHEIKH, M.Sc.**  
Field Protection Assistant  
Danish Refugee Council / Dansk Flygtningehjælp | ![Sarah ELSHEIKH, M.Sc.](image5.png) |
| **Prof. Dr. rer.pol. Georg ERDMANN**  
Head of Department (a.D.)  
Berlin University of Technology  
Department of Energy Systems | ![Prof. Dr. rer.pol. Georg ERDMANN](image6.png) |
| **Prof. Dr. Gioia FALCONE**  
Rankine Chair - Professor of Energy Engineering  
University of Glasgow, Imperial College London | ![Prof. Dr. Gioia FALCONE](image7.png) |
<table>
<thead>
<tr>
<th>Lecturer &amp; Tutors</th>
</tr>
</thead>
</table>
| **Dr. Oliver Helge FRANZ**  
Regulatory Manager, Head of Regulatory Services and Regulatory Strategy  
RWE Deutschland AG, innogy SE |
| **Dr. Clemens GERBAULET**  
Project Manager Business Development  
HanseWerk AG |
| **Prof. Dr.-Ing. Dietmar GÖHLICH**  
Head of MPM  
Methods of Product Design and Mechatronics  
TU Berlin |
| **Dr. Annegret GROEBEL**  
Head of Department International Relations/ Postal Regulations  
Bundesnetzagentur |
| **Benjamin GROSSE**  
Research Associate  
Berlin University of Technology  
Chair for Energy and Resource Management |
| **Dr. Frank Peter HANSEN**  
Senior Manager  
Tennet TSO GmbH Former Bundesnetzagentur |
| **Prof. Dr. Klaus HEINE**  
Law and Economics  
Erasmus School of Law, Rotterdam  
Jean Monnet Chair of Economic Analysis of European Law |
| **Dr. Bodo HERRMANN**  
Head of Unit: Grid Development / Expansion  
Bundesnetzagentur |
<table>
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<tr>
<th>Lecturer &amp; Tutors</th>
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<tr>
<td><strong>Prof. Dr. Christian VON HIRSCHHAUSEN</strong>&lt;br&gt;Economic Policy and Infrastructure Policy&lt;br&gt;Berlin University of Technology&lt;br&gt;DIW Berlin (German Institute for Economic Research)&lt;br&gt;Massachusetts Institute of Technology</td>
</tr>
<tr>
<td><strong>Peter HOHAUS</strong>&lt;br&gt;Senior Policy Advisor&lt;br&gt;Uniper SE</td>
</tr>
<tr>
<td><strong>Steven HOTOPP, M.Sc.</strong>&lt;br&gt;Research Associate&lt;br&gt;Berlin University of Technology&lt;br&gt;Chair for Energy and Resource Management</td>
</tr>
<tr>
<td><strong>Prof. Dr. Dodo ZU KNYPHAUSEN-AUFSESS</strong>&lt;br&gt;Strategic Leadership and Global Management&lt;br&gt;Berlin University of Technology</td>
</tr>
<tr>
<td><strong>Dr. Oliver KOCH</strong>&lt;br&gt;Deputy Head of Section&lt;br&gt;DG Energy-European Commission</td>
</tr>
<tr>
<td><strong>Dr. Carsten KÖNIG</strong>&lt;br&gt;Academic Officer&lt;br&gt;University of Cologne&lt;br&gt;Chair for Civil Law, Competition Law, Regulatory Law, Law of the Digital Economy</td>
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<tr>
<td><strong>Dr. Armin KRAFT</strong>&lt;br&gt;CEO&lt;br&gt;EEB Enerko</td>
</tr>
<tr>
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<tr>
<td>Dr.-Ing. Maren KUSCHKE</td>
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<tr>
<td>Dr. Florian LEUTHOLD</td>
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<td>Prof. Dr. Roland MENGES</td>
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<td>Prof. Dr.-Ing. Joachim MULLER-KIRCHENBAUER</td>
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<tr>
<td>Dr. Christian NABE</td>
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<tr>
<td>Lecturer &amp; Tutors</td>
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</tbody>
</table>
| **Prof. Dr.-Ing. Aaron PRAKTIKNJO**  
Assistant Professor  
RWTH Aachen University  
Chair of Energy Resource and Innovation Economics/E.ON  
ERC Energy Research Center |
| **Prof. Dr. Søren SALOMO**  
Institute of Technology and Management  
Technology and Innovation Management |
| **Prof. Dr. Dr. Dres. h.c. Franz Jürgen SÄCKER**  
Academic Director  
Energy Law MBL  
enreg Institute for Regulatory and Energy Law Berlin |
| **Prof. Dr. Lydia SCHOLZ**  
Economic and Business Law  
Hochschule Bremen |
| **Dr. habil. Hans-Günter SCHWARZ**  
Electricity Market Modelling New Business RWE Supply and Trading  
RWE |
| **Stephan Seim, M.Sc.**  
Research Associate  
TU Berlin, Energy and Resource Management |
| **Dr. Juliane STEFFENS, LL.M. (Harvard)**  
Freie Universität Berlin | FUB  
Lecturer, Coordinator – Master of International and European Energy Law, TU Berlin |
| **Prof. Dr.-Ing. Kai STRUNZ** | Head of Department  
Sustainable Electric Networks and Sources of Energy  
Berlin University of Technology |
|-----------------------------|----------------------------------------------------------------------------------|
| **Dr. Maximilian WACHTER**  | Strategic assistant of the CEO at PHOENIX group -  
Integrated Healthcare Provider |
| **Dipl.-Ing. Jens WEIBEZAHN** | Research Associate  
Berlin University of Technology |
| **Christian WIEZOREK, M.Sc.** | Research Assistants and Doctoral Candidate  
Berlin University of Technology |