Renewables make sense … Energize your future!

TU Wien I Energiepark Bruck/Leitha

This master program is an outstanding opportunity to become part of an international, enthusiastic and motivated group of people, sharing the same interest for such a challenging topic. The experiences of this course enable us to contribute to the common goal of securing the supply of green energy at affordable prices in order to maintain our standard of living and reducing dependence on fossil fuels at the same time.

Mag. Anna Katharina Gollob, MSc
Alumna

TU Wien Continuing Education Center

In this master program, you will develop your know-how and gain valuable skills in the field of renewable energy. You will receive a comprehensive education and hands-on experience in the industry to be able to contribute to the transition towards sustainable energy systems.

Energiepark Bruck/Leitha

Eichendorfer Straße 12
A-2460 Bruck/Leitha
T +43/(0)2162/68100
F +43/(0)2162/68100-29
E office@energiepark.at
www.energiepark.at

TU Wien

Study in the most liveable city of the world: Vienna

(Source: 2019 Quality of Living Ranking, Mercer)

Renewable Energy Systems
TU Wien I Energiepark Bruck/Leitha

Postgraduate MSc Program
Master of Science (MSc)
4 semesters, part-time

© Continuing Education Center, TU Wien
Renewables make sense … Energize your future!

STUDENT PROFILE

- 49 Nationalities
- 282 Students & Alumni
- 65% International students
- 35 years Average age

Educational & professional background

- 46% legal
- 31% technical
- 13% ethos
- 30% economical

Renewable Energy Systems
TU Wien | Energiepark Bruck/Leitha

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TU Wien
Continuing Education Center

TU Wien

Postgraduate MSc Program
Master of Science (MSc)
4 semesters, part-time
Renewable energy and energy-efficiency improvements are the cornerstone in heading toward long-term, sustainable development. The interdisciplinary part-time MSc Program is offered by TU Wien in cooperation with Energiepark Bruck/Leitha. The program is designed to create experts who will be able to cope with this challenge.

The global economic challenge for the next decades will be the question of sustainable energy resources. The dependability of supply and acceptable costs will be vital importance for all of us - both developed and developing countries.

With the MSc Program the participants acquire knowledge and competence for:
- the design of plants for the use of renewable energy sources from economic and legal point-of-view;
- the operation of plants for the use of renewable energy sources;
- the future assessment of environmental, technical and economic developments of renewable energy systems.

As a result, the faculty is diverse and extremely dynamic; cooperating with top researchers and companies from energy and technology fields. The part-time program is presented in modules and takes four semesters.

The TU Wien – located in the heart of Europe and Vienna - is the largest Austrian institution in research and education, though the beginnings of TU Wien reach back more than 200 years. Research, teaching, and learning are state-of-the-art. The interdisciplinary part-time MSc Program is offered by TU Wien in cooperation with Energiepark Bruck/Leitha.

Univ.Prof.Dr.techn. Reinhard Haas
Academic Director

MODULE 1
Introduction to Renewable Energy

- Presentation of renewable energy production, energy, new, energy tradable international and European exchanges
- Financial tools for financing renewable energy projects
- Marketed electricity, basic management, involvement of natural resources
- Distributed energy, consumer-side energy market
- New incentive models, practical examples of renewable integration

MODULE 2
Wind Energy - Solar Heating & Photovoltaics

- Physical principles of use of solar energy
- Technical engineering for the use of solar energy
- Analysis of field projects
- Technological, economical and environmental aspects
- Practical examples of renewable integration

MODULE 3
Efficient Energy Use & Thermal Plant Engineering

- Energy efficiency, climate protection and regional development.
- Experience in the field of renewable energy and future perspectives.
- Frameworks
- Legal aspects of renewable energy according to the EU regulatory system • Basics of European regulation
- Planning principles of renewable energy projects • Financial planning for energy production
- Environment protection
- Economy, waste treatments, recycling
- Technological and economical aspects
- Basic economics, structural planning
- Financing options
- Energy efficiency for buildings
- Renewable energy systems • midterm aspects
- Energy conversion, storage
- Energy efficiency, renewable energy systems
- Basics of electricity and electronics • Control and electrical engineering of electricity • Basics of project management
- Renewable energy plants • midterm aspects
- Renewable energy systems • midterm aspects
- Renewable energy systems • midterm aspects
- Renewable energy systems • midterm aspects

TARGET GROUP
Individuals from companies, organizations, and authorities who are engaged in planning, operating or evaluation of renewable energy projects or who are involved in financing, promotion, legal licensing or other support activities for the use of renewable energy or environmental issues.

PROGRAMME AND COURSES
With the MSc Program the participants acquire knowledge and competence for:
- the design of plants for the use of renewable energy sources from economic and legal point-of-view,
- the operation of plants for the use of renewable energy sources,
- the future assessment of environmental, technical and economic developments of renewable energy systems.

FINAL EXAM
The MSc Program is concluded by writing a Master’s Thesis (Masterarbeit) at the EU Wien.

Subject to modification

ADMISSION REQUIREMENTS
Admission requirements are completion of a subject-related study program in technical and natural sciences, or law or a recognized Austrian or foreign post-secondary institution of education and a minimum of 2 years of professional experience. Persons holding an equivalent educational and professional qualification may also be admitted.

ACCREDITATION
Accredited by ASun (Agency for Study, Research, Information, Natural Sciences and Mathematics)

LANGUAGE OF INSTRUCTION
English

DURATION
The part-time program is presented in modules and takes 4 semesters.

COUNTRY MODULES
To provide the participants with in-depth knowledge on energy markets in Europe, tailor-made country modules are an essential part of the MSc Program. Within the scope of the country modules the following countries are covered: Portugal, Bulgaria, Croatia, Czech Republic, Germany, Hungary, Poland, Romania, Slovakia, Slovenia, and Turkey.

The schedule will include lectures in these countries as well as excursions.

FACILITY
Internationally recognized scientists and professional experts are members of this top-class faculty. Based on their sound professional knowledge and experiences on their extensive practical experience in the field of renewable energy sources. A result, the faculty is diverse and extremely dynamic; preparing our graduates to face future challenges.

I have the pleasure to participate in this unique program in its first implementation year 2005, from the very beginning this program is highly valuable while also impressive, primarily due to maturity, most recently focused by the ASun accreditation.

Dr. Franz Fazekas
President of European Greenbelt

Dr. Gábor Mózes, MSc
President of European Greenbelt

I have the pleasure to participate in this unique program in its first implementation year 2005, from the very beginning this program is highly valuable while also impressive, primarily due to maturity, most recently focused by the ASun accreditation.

Dr. Gábor Mózes, MSc

TU Wien in cooperation with Energiepark Bruck/Leitha.

CURRICULUM

The TU Wien – located in the heart of Europe and Vienna – is the largest Austrian institution in research and education, though the beginnings of TU Wien reach back more than 200 years. Research, teaching, and learning are state-of-the-art. The interdisciplinary part-time MSc Program is offered by TU Wien in cooperation with Energiepark Bruck/Leitha.

The global economic challenge for the next decades will be the question of sustainable energy resources. The dependability of supply and acceptable costs will be vital importance for all of us – both developed and developing countries.

Never before has the demand for employees in this field been so high. You are required to contribute in-depth knowledge, as well as ensure your own ongoing education to stay abreast of technological progress. In the part-time MSc Program “Renewable Energies”, participants will receive the very best preparation for this demands of sustainable energy economies. It will provide them with an opportunity to specialist roles in the challenging and rapidly expanding field of renewable energies and energy efficiency.

Our graduates will be able to impact the energy rethink currently underway in different positions in business and society:
- It takes project implementation specialists to plan and operate alternative energy production facilities;
- Financing institutions and governmental agencies will face the challenge of having to competently assess such projects more and more frequently;
- Even conventional energies provide good business opportunities in this field in the future.

In this growing sector, the demand for well-founded knowledge on energy markets in selected European countries. Contributions will be made by: AUA-University of Science and Technology (Kwazulu), Czech Technical University (Prague), Jaing (China), Humboldt University of Technology (Berlin), University of West Hungary (Budapest), Agri-Action as project-related energy advice (Bulgaria, EGe University (Izmir), Hamburg AGH-University of Science and Technology (Krakow), Czech University of Science and Technology (Prag).

The core objective of this post graduate Master’s program is to create experts who will be able to cope with this challenge.

Univ.Prof.Dr.techn. Reinhard Haas
Academic Director

TU Wien - Technology for People - 200 years research, teaching, and learning are state-of-the-art.

The association Energiepark Bruck/Leitha was established in 1985 and acts as an innovation center for renewable energy, energy efficiency, climate protection and regional development. Since then a wide range of renewable energy projects have been realized. Based on Enräg’s expertise the region already achieved energy autonomy in the field of power.

The interdisciplinary part-time MSc Program is offered by TU Wien in cooperation with Energiepark Bruck/Leitha. The program is designed to create experts who will be able to cope with this challenge.

Univ.Prof.Dr.techn. Reinhard Haas
Academic Director

With the MSc Program the participants acquire knowledge and competence for:
- the design of plants for the use of renewable energy sources from economic and legal point-of-view,
- the operation of plants for the use of renewable energy sources,
- the future assessment of environmental, technical and economic developments of renewable energy systems.

FINAL EXAM
The MSc Program is concluded by writing a Master’s Thesis (Masterarbeit) at the EU Wien.

Subject to modification

“Master of Science (MSc)”

Achievement of the final degree

FINAL DEGREE

Dr. Franz Fazekas
President of European Greenbelt

Dr. Gábor Mózes, MSc
President of European Greenbelt

I have the pleasure to participate in this unique program in its first implementation year 2005, from the very beginning this program is highly valuable while also impressive, primarily due to maturity, most recently focused by the ASun accreditation.
The global economic challenge for the next decades will be the question in sustainability of energy resources. The dependency of supply and cost efficiency can be vital importance for us in both developed and developing countries. As a result, the faculty is diverse and extremely dynamic and the schedule will include lectures in these countries as well alternating: Bulgaria, Croatia, Czech Republic, Germany, Hungary, Poland, Romania, Slovakia, Slovenia, and Turkey. The schedule will include lectures in these countries as well as excursions.

**CURRICULUM**

**MODULE 1**
- Introduction on Renewable Energy
  - Long-term, sustainable development would be unachievable without renewable energy source and efficient use thereof. Europe is world leader in terms of environmental and natural sciences. If we to call for a new energy system, and should strive to achieve this position. In this module, the MSc Program can create a valuable contribution by integrating our neighbors in partnership towards a European action.

**MODULE 2**
- Biomass, Biofuels & Biogas
  - Renewable energy and energy efficiency improvements are the cornerstones in heading towards Long-term, sustainable development. Pursuing renewable energy sources was a requirement in terms of environmental and legal aspects.

**PROGRAMOTES POELS**
- With the Msc Program the participants acquire knowledge and competence for:
  - the design of plants for the use of renewable energy sources from environmental and legal points of view.
  - the operation of plants for the use of renewable energy sources.
  - the future assessment of environmental, technical and economic developments of renewable energy systems.

**TARGET GROUP**
- Individuals within companies, organizations, and authorities who are engaged in planning, operating or evaluation of renewable energy projects or who are involved in financing, promotion, legal or licensing of the use of renewable energy or environmental issues.

**FINAL EXAMS**
- The MSc Program is concluded by writing a master’s Thesis. The final degre program is granted by the TU Wien.

**ADMISSION REQUIREMENTS**
- Admission requirements are a completion of a subject-related study program in technical or natural sciences, or law at a recognized Austrian or foreign post-secondary institution of education and a minimum of 2 years of professional experience. Persons holding an equivalent educational and professional qualification may also be admitted.

**ACREDITATION**
- Accredited by ASIB (Accreditation Agency for Study, Information, Natural Sciences and Mathematics).
The global economic challenge for the next decades will be the question in sustainability of energy resources. The dependency of supply and acceptable costs will be vital importance for all of us – in both developing and developed countries. Never before has the demand for employees in this field increased. The complimentary strengths of the TU Wien – located in the heart of Europe and Vienna – and of Energiepark Bruck/Leitha make the partnership a unique opportunity to expertise roles in the challenging and rapidly expanding field of renewable energies and energy efficiency programs.

Our graduates will be able to shape the future as emblems are important to the position that is being occupied.

Research and practical experience are key when building interest in the field. In this growing sector, the demand for well-rounded thought leaders has increased. The complementary strengths of the TU Wien – located in the heart of Europe and Vienna – and of Energiepark Bruck/Leitha make the partnership a unique opportunity to expertise roles in the challenging and rapidly expanding field of renewable energies and energy efficiency programs.

Our graduates will have access to the latest research and practical experience.

TU Wien in cooperation with Energiepark Bruck/Leitha.

Energiepark Bruck/Leitha

Think Globally. Act Locally. – more than 20 years of experience in the field of renewable energy and regional development.

The association Energiepark Bruck/Leitha was established in 1995 and acts as an innovation center for renewable energy, sustainable energy systems. In recent years, electricity production from renewable energy sources has increased significantly in many countries worldwide. Currently, the EU renewable has become one of the electricity producers. The main challenge is to switch it to fully renewable energy systems.

Renevables energy and energy-efficiency improvements are the cornerstone in toward sustainable energy systems. In recent years, electricity production from renewable energy sources has increased significantly in many countries worldwide. Currently, the EU renewable has become one of the electricity producers. The main challenge is to switch it to fully renewable energy systems.
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(Source: 2019 Quality of Living Ranking, Mercer)

TU Wien I Energiepark Bruck/Leitha
Postgraduate MSc Program
Master of Science (MSc)
4 semesters, part-time

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www.energiepark.at

Renewable Energy Systems
TU Wien I Energiepark Bruck/Leitha

newenergy.tuwien.ac.at
MSc Program

Renewable Energy Systems
TU Wien | Energiepark Bruck/Leitha
Class 2020–2022

PROGRAM START
March 19, 2020

DURATION AND TIME SCHEDULE
The part-time program is presented in modules and takes four semesters.

LOCATIONS
The MSc Program is held on several locations in different countries: Vienna, Bruck/Leitha and at the sites of the country modules of selected European countries: e.g. Bratislava (Slovakia), Bucharest (Romania), Hamburg (Germany), Izmir (Turkey), Krakow (Poland), Ljubljana (Slovenia), Mosonmagyarovar (Hungary), Prague (Czech Republic), Varna (Bulgaria), and Zagreb (Croatia).

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Subject to modification

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TUITION FEE
The tuition fee for the MSc Program is **EUR 19,500** (VAT-free), excluding travel expenses and cost of room and board.

INFO SESSIONS
Presentations of the MSc Program will be held in the form of info sessions. During these info sessions the Academic Director, program managers and alumni provide you with in-depth information on the program and look forward to answering your questions.

Tue  Jun 25, 2019   6.00 pm  (online)
Thu  Sep 19, 2019   6.00 pm  (Vienna)
Thu  Oct 24, 2019   6.00 pm  (online)
Thu  Nov 21, 2019   6.00 pm  (Vienna)
Thu  Dec 12, 2019   6.00 pm  (online)
Thu  Jan 16, 2020   6.00 pm  (Vienna)

Please register at newenergy@tuwien.ac.at

ADMISSION/APPLICATION
Application Deadline
Sat   Nov 30, 2019

Start Online Application
https://newenergy.tuwien.ac.at

After receiving your complete application, an individual admission interview with the Academic Director and the Program Management is planned. Admission interviews will take place after individual appointment.

This represents a selection of the faculty of class 2019–2021.

FACULTY

**DI Dr. Amelia Ajanovic** TU Wien
**Dr. Horst Brandmaier**, MBA OeMag – Abwicklungszelle für Ökostrom AGUniv.
**Univ.Prof. Dr. Anton Burger** Catholic University Eichstätt-Ingolstadt
**MR Dr. Gerhard Burian** formerly Federal Ministry of Science, Research and Economy
**Dr. Benedikt Ennsr** Federal Ministry of Science, Research and Economy

**Tara Esterl**, MSc AIT – Austrian Institute of Technology GmbH
**FH-Prof. DI Hubert Fechner** MAS, FH Technikum Wien
**ao.Univ.Prof. Dr. Anton Friedl** TU Wien

**Univ.Prof.Dr.-Ing. Wolfgang Gawlik** TU Wien
**Univ.Prof. DI Dr. Reinhard Haas** TU Wien
**Dr. Julia Hall** TU Wien

**Dr. Martina Handler** Austrian Society for Environment & Technology

**Ass.Prof. DI Dr. Michael Harasek** TU Wien

**Mag. Dr. Michael Hartner** TU Wien

**Priv.-Doz. DI Dr. Christoph Hauer** Vienna University of Natural Resources and Applied Life Sciences
**Mag. Edith Hofer**, LL.M. Energy-Control GmbH

**DI Marcus Hummel** e-think – Zentrum für Energiewirtschaft und Umwelt

**Johannes Kathan**, MSc AIT – Austrian Institute of Technology GmbH

**Dr. Marek Kobialka** Vienna Insurance Group

**DI Dr. Lukas Kranzl** TU Wien

**Dr. Andreas Krenn** Energiewerkstatt
**Dr. Volker Krey** IASA

**DI Martin Krill** Profes – Professional Energy Services GmbH
**Mag. Robert Maier** Raiffeisenlandesbank Niederösterreich Wien AG
**DI Michael Mandl** tbw research GesmbH

**Dr. Gábor Milics**, MSc University of West Hungary
**Univ.Prof. Dr. Martin Mittelbach** Graz University of Technology
**Univ.Prof. Dr. Nebojsa Nakicenovic** i.R. TU Wien

**Univ.Prof. Dr. Miklós Neményi** Ph.D., DSc University of West Hungary

**DI Dr. Mario Ortner** ic-Projekte Projektentwicklung & Management GmbH
**DI Dr. Christian Panzer** CPE-Thinktank e.U.

**Univ.Prof. Dr. Bernhard Pelikan** Vienna University of Natural Resources and Applied Life Sciences

**DI Dr. Reinhard Rauch** Karlsruher Institut für Technologie (KIT)
**DI Georg W. Reinberg** Architekturbüro Reinberg ZT GmbH

**DI Dr. Gustav Resch** TU Wien

**DI Rusbeh Rezania** Wien Energie GmbH

**DI Friedrich Stastny** Freelancer

**Ass.Prof. DI Dr. Karin Stieldorf** TU Wien
**Mag. Hannes Taubinger** Anton Kittel Mühle Plaika GmbH
**Prof. Dr. Páll Valdimarsson** Pvald ehf

**Dipl.-Fäd.Ing. Werner Weiss** AEE INTEC

**DI Lukas Weißensteiner** RP Global Austria

**Dr.(ETH) Arthur Wellinger** Triple E&M

PERSONAL ADVISORY SERVICE & APPLICATION

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Christina Drochter

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Mag. Doris Guttmann

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