

About Europa-Universität Flensburg

Located in the middle of the German-Danish border area sits Germany's northernmost university. Founded by the British in 1946, it became an accredited university in 2000 and has been called „Europa-Universität Flensburg“ (EUF) since 2014. Since then, its interdisciplinary and European focus has been continuously expanded and the university has continued to become more international.

In 2017, the EUF adapted its semester times to the international calendar: the spring semester having lectures run from March to June, and the autumn semester from September to December. For almost 30 years, the Europa-Universität Flensburg has worked closely with the Danish Syddansk Universitet, including dual degree programmes offered from the two universities.

Two main teaching and research focuses of the university are education and teacher training as well as societal transformation and sustainability. At the centre of all areas of study, there is a focus of creating a sustainable society worth living in.

The 17-degree programs offered at the EUF are supervised by almost 350 academics and about 90 professors. The university's green campus is located just outside the city centre. While there are 6,400 students enrolled at EUF, the campus has almost 10,000 students on the move, as the EUF shares the campus with the Hochschule Flensburg (Flensburg University of Applied Sciences). Flensburg University of Applied Sciences and the Europa-Universität Flensburg work closely together in inter-university centres, such as the „Centre for Sustainable Energy Systems“ (ZNES).



Profile of the Study Program

Dealing with man-made climate change is the greatest challenge of the 21st century. A central element of this challenge is enabling the fastest possible global conversion of the energy supply to 100% renewable energy sources. Students learn how renewable energies can be integrated into the electrical, heating and transport sectors the role that acceptance and adaptations play within societal changes.

In addition to techno-economic topics, socio-economic and socio-political topics are also examined - for example, the ways in which the development of a gender-equitable energy and climate policy can be advanced.

The Master of Engineering degree in Energy and Environmental Management is offered by the Europa Universität Flensburg in cooperation with the Flensburg University of Applied Sciences on the joint campus. Overall, the program offers a variety of electives, so that students can individually design the program to their person interests and targeted focal points at the Europa-Universität or the University of Applied Sciences.

The program is deliberately designed to be international and can be taken entirely in English. In addition to the focus on „industrialized countries“, which tends to focus on the development of solutions for the Global North, there is also a second focus on „developing countries“ with a focus on the Global South. Many modules are deliberately designed to be able to be taken by students from both masters programs which facilitates exchange, networking, and cooperation between students from all continents.

The student council forms the link between students and the university. It maintains contact with the university committees and lecturers, organizes events by and for students and, of course, helps with all open questions. In addition, there is a very active alumni network - which facilitates exchange with a wide range of actors in the energy transition from industry, politics, business and research through regular specialist conferences and network meetings.



Contact

course coordination

Prof. Dr. Pao-Yu Oei
+49 461 805-2533
pao-yu.oei@uni-flensburg.de

Central study guidance

Helsinki, Raum 002
+49 461 805-2193
studienberatung@uni-flensburg.de
Auf dem Campus 1
24942 Flensburg

Energy- and Environmental Management (Industrialised countries)

Admission requirements & Application

Requirements for admission to the degree program EUM for Industrialised Countries (M. Eng.):

- above average completion of the bachelor's degree program in Energy Sciences at Flensburg University of Applied Sciences (210 CP) or a comparable seven-semester European Bachelor's degree program in industrial engineering and management
- or
- well above average degree (top 25%) of a six-semester comparable European Bachelor's degree program in industrial engineering
- or
- well above average completion of a six-semester European Bachelor's degree program in engineering and proof of successful completion of the economic bridge courses
- and
- Semester abroad (can be completed as part of the Master's program)
- Proof of very good English skills
- Proof of good German skills (for foreign applicants)
- Letter of Motivation

The application periods are every year from 15 May to 15 July for the autumn semester and from 01 December to 15 January for the spring semester. Accordingly, studies begin on 1 March and 1 September. The application is made via the [online application portal](#) of the EUF.



1. Semester (30 CP)	Sustainable Energy Systems		Energy-management	Engineering Informatics e.g. Energy Automation, Power Grid Modelling	Technology I e.g. Green Engineering I, Wind Farm Projecting	Economy I e.g. Energy Sufficiency, Project Financing
2. Semester (30 CP)	Environmental Economics	Technology II e.g. Green Engineering II, Energy Storage Technology	Technology III e.g. Advanced Power Plant Engineering	Technology IV e.g. Climate Protection & Climate Protection Concepts	Economy II e.g. Energy Law, Environmental Management	Economy III e.g. Trading Energy, Green Entrepreneurship
3. Semester (30 CP)	Master Thesis					

Study structure

The M.Eng. Energy and Environmental Management program is a three-semester program offered in cooperation between the EUF and the Flensburg University of Applied Sciences, and the program is directly linked to the bachelor's program in Energy Sciences offered there. The teaching languages of the Master program are English and German, depending on the module.

In each semester, 30 CP are acquired, whereby the CP of the first two semesters must consist of equal parts of economic and technical modules. The third semester is devoted to the completion of a master thesis. Students may write a practical-oriented thesis working a company or a research-oriented thesis for an institute or at the university. The first two semesters consist of three compulsory modules and a variety of elective modules in the fields of economics, engineering informatics and technology. The compulsory modules "Sustainable Energy Systems" and "Environmental Economics" are both economic modules, whereas "Energy Management" is an engineering module.

The degree program offers a wide range of elective modules so that the course of study can be individually selected and adapted to a specific career path. The complete list of possible elective courses can be found in the [module handbook](#).

■ **Compulsory Modules** ■ **Electives**

Engineering electives (selection):

- Green Engineering I & II
- Advanced Power Plant Technology
- Applied Environmental Science
- Energiespeichertechnik
- Windparkprojektierung

Economic electives (selection)::

- Green Entrepreneurship
- Trading Energy
- Investment of Analysis and Financing of Energy Projects
- Energy and Environmental Policy
- Energierecht

Engineering informatics electives (selection)::

- Energieautomation
- Power Grid Modelling
- Energy System Modelling & Optimization

Career perspectives

The aim of the degree program is to train qualified specialists in the field of industrial engineering with a special focus on problems of sustainable energy and environmental management.

With the Master of Engineering, you have very good chances for a quick entry into the job market after graduation, e.g., in the following occupational fields:

- Energy supply companies and grid operators
- Engineering and planning offices and research
- Energy departments in large manufacturing companies
- Plant manufacturers (regenerative & conventional energy technology, environmental technology)
- Politics, administration, regulatory authorities
- Non-profit organisations (NGOs)

Furthermore, many graduates go to research institutions in energy and environmental systems research after graduation. Possible areas are e.g.:

- Development of sustainable energy systems
- Use of renewable energy sources
- Opportunities to increase efficiency in the supply and demand of energy
- Development of new energy systems based on hydrogen
- Investigating the role of citizen participation and citizen movements
- Development of a gender-equitable energy and climate policy

