

Module Name	Introduction to Energy Economics
Module Number	Eul-RES-C-EnWi, Eul-ET-E-EnWi, Eul-MT-E-EnWi
Responsible Lecturer	Prof. Dr. habil. Dominik Möst dominik.moest@tu-dresden.de
Qualification Objectives	Students master the methods of investment appraisal, can evaluate investment projects regarding their economic feasibility, and make well-founded decisions. They are able to assess and evaluate various energy carriers, such as coal, gas, oil, electricity, and heat, including their characteristics (e.g., reserves, suppliers, costs, and technologies). Students are familiar with the regulatory framework of energy policy and are capable of understanding energy-economic interrelations as well as assessing the economic and ecological impacts of energy supply.
Contents	The course covers methods of investment appraisal, calculation of levelized costs of electricity or energy provision, assessments of the overall energy system, the significance of individual energy carriers, energy supply and demand, as well as energy carriers such as gas, coal, oil, secondary energy carriers (e.g., electricity and hydrogen), and energy policy.
Teaching and Learning Forms	2 hours per week of lectures, 2 hours per week of exercises, and self-study.
Prerequisites for Participation	No prior knowledge is required.
Usability	The module is a compulsory module in the basic study phase of the diploma program in Regenerative Energy Systems. Additionally, it is an elective module in the elective area "General Qualifications" according to § 6 paragraph 3 SO and § 33 paragraph 3 PO of the main study phase in the diploma program Mechatronics. Furthermore, it is an elective module in the elective area "General Qualifications" according to § 6 paragraph 3 SO and § 33 paragraph 5 PO of the main study phase in the diploma program Electrical Engineering. It creates the prerequisites for the modules that list this module in the field "Prerequisites for Participation."
Prerequisites for the Award of Credit Points	Credit points are awarded when the module examination is passed. The module examination consists of a written exam lasting 90 minutes.
Credit Points and Grades	5 credit points can be earned through the module. The module grade corresponds to the grade of the written exam.
Frequency of the Module	The module is offered every summer semester.
Workload	The total workload is 150 hours.
Duration of the Module	The module lasts one semester.