

Module name	Introduction to Energy Management
Module number	Eul-RES-C-EnWi, Eul-ET-E-EnWi, Eul-MT-E-EnWi
Lecturer in charge	Prof. Dr. habil. D. Möst dominik.moest@tu-dresden.de
Objectives	After completion of the module, the students master the methods of investment appraisal, can evaluate investment projects with regard to their economic advantage and make well-founded decisions. Students can analyze and evaluate different energy sources, such as coal, gas, oil, electricity, heat as well as their characteristics, including reserves, suppliers, costs and technologies. Students are familiar with the energy policy framework. They are able to understand energy-economic interrelationships and to evaluate the economic and ecological effects of energy supply.
Contents	The contents of the module are methods of investment calculation, calculation of electricity production costs and energy supply costs, evaluation of the overall energy system, the importance of individual energy sources, energy supply and demand as well as energy sources such as gas, coal, oil, secondary energy sources electricity and hydrogen and energy policy.
Modes of teaching and learning	2 hours per week lectures, 2 hours per week exercises and self-study.
Prerequisites	There are no special prerequisites.
Usability	The module is a compulsory module in the basic studies of the degree programme Renewable Energy Systems. Further, it is a compulsory elective module from the compulsory elective area General Qualifications according to § 6 paragraph 3 SO and § 33 paragraph 3 PO of the main study programme in the diploma study programme Mechatronics. It is also a compulsory elective module from the compulsory elective area of General Qualifications according to § 6 paragraph 3 SO and § 33 paragraph 5 PO of the main study programme in the Diploma programme in Electrical Engineering. It creates the prerequisites for the modules that list that module in the "Prerequisites" field.
Requirements for the award of credit points	The credit points are awarded when the module assessment is passed. The module assessment consists of a written exam of 90 minutes.
Credit points and grades	5 credit points can be obtained by the module. The module grade is the grade of the examination.
Frequency	The module is offered every summer semester.
Workload	The total effort is 150 hours.
Duration	The module takes one semester.

