Module name	**Case Studies in Energy Economics**
Module number	CMS-TRK-CSEE
Senior Lecturer	Prof. Dr. Dominik MöSt dominik.moest@tu-dresden.de
Qualification objectives	Students are capable of independently answering complex questions of energy and risk management or resource economics, and of creating and applying their own concepts for integrating economic aspects into decision-making. Students are able to work in teams, master literature research and use scientific information sources.
Contents	The module covers current techno-economic issues in the energy sector, the modelling of commodity markets, the mapping and modelling of uncertainties in the energy sector and the economic modelling of electricity grids.
Forms of teaching and learning	The module includes seminars of 0.5 SWS, projects of 120 hours and self-study. The teaching language of the seminars and projects may be German or English and will be specifically determined by the teacher at the beginning of each semester and announced in the usual manner.
Eligibility for participation	The skills to be acquired in the modules CMS-TRK-EPM Electric Power Markets, CMS-COR-HPC High-Performance Computing and CMS-COR-ML Machine Learning are required.
Usability	In the Masters Course Computational Modeling and Simulation, the module is a compulsory module in Track Computational Modeling in Energy Economics. The module provides the pre-requisites for the modules it designates under the pre-requisites for participation.
Conditions for the award of credits	Credits are awarded when the module test is passed. The module test consists of a housework of 120 hours and a non-public oral test performance as a group test lasting 30 minutes. Both audit services are relevant to success. The language of the test will be English.
Credits and marks	The module allows for the award of 10 credit points. The module score is the unweighted average of the scores for the individual audit services.
Frequency of the module	The module is offered every summer semester.
Workload	The total workload is 300 hours.
Duration of the module	The module covers 1 semester.