Course: Energy Transition

credits: 5

Course code	TBVB24ETR
Name	Energy Transition
Study year	2024-2025
ECTS credits	5
Language	English
Coordinator	P.G. de Vey Mestdagh
Modes of delivery	Education
Assessments	Energy Innovation - Assignment Scenarioplanning 1 - Assignment

Learning outcomes

Students will select an innovation in the energy field and will perform a TIS assessment.
Students then determine what a company should do: continue developing the innovation or invest in the implementation process.

Students will analyze scenarios for possible future energy landscapes by applying the Oxford scenario planning model.

Content

What will determine which innovations will be an important technology in the energy transition over the next years? One can look at the development of a technology as a process that takes place in a technological innovation system (TIS). The TIS includes all actors and institutions that are involved in the development, diffusion and utilization of a technology. For a technology to develop successfully the TIS should fulfil several functions, such as intrepreneurial activities, knowledge development, knowledge exchange, guidance of the search, market formation, resource mobilization and support from advocacy coalitions.

During this lecture series the theory of strategic scenario planning will be discussed. Working with the Oxford method of scenario planning, possible future energy landscapes will be investigated. An overview of scenarios published by Shell, International Energy Agency and other organizations will be analyzed.

Included in programme(s)

Exchange Energy & Society (autumn and spring)
Minor Energy & Society

School(s)

Institute of Engineering

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