Course: E4S Energy Transition Field Lab: Analysis — credits: 10

Course code	ESVM24EFLA
Name	E4S Energy Transition Field Lab: Analysis
Study year	2025-2026
ECTS credits	10
Language	English
Coordinator	H.M. Moesker
Modes of delivery	Education
Assessments	E4S Energy Transition Field Lab: Analysis - Assignment

Learning outcomes

Objective of the module:

1. Analyse and evaluate how local resources and ‘clustering connections’ can be mobilized to solve energy transition challenges
2. Analyse, identify and evaluate the actors and factors in the development process of energy communities in the context of relevant theories of social movements, systems thinking and network thinking
3. Analyse and evaluate community building systems and decision-making processes in their local end meso-context
4. Analyse, identify and evaluate how present legal landscapes and principles can be used and manipulated in order to mobilize change in evolving energy landscapes/communities and which support innovation/transition.
5. Analyse and evaluate how decision-making processes, across society (at ‘meso’ level) between regional coalitions and bottom-up initiatives(at ‘micro’ level), can support energy transition.
6. Analyse difficult and complex developments in the energy transition on the basis of acquired theoretical and practical knowledge, and make underlying structures and mechanisms in communities visible.
7. Analyse and critically reflect on the various governmental strategies and communicate with stakeholders in a way that benefits energy transition in line with the stakeholders interests and responsibilities.
8. Analyse and critically reflect upon the contents of academic papers, professional articles and new media publications on present governance theories, innovation theories and methods.

Content

Content of the module:

In the second semester students will work in a Living Lab. In the Living Lab students work on Energy transition projects, provided by professorships and/or external stakeholders.
In the module “Analysis” students work on the analysis of the energy transition issues at hand, looking at relevant stakeholders and their interests, governance, spatial situations and local communities. The analysis addresses legal, political,social, economic, ecological and technological aspects. This is done by using a systems approach and transition theories and models.

Included in programme(s)

Energy for Society

School(s)

Institute of Engineering

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