

Vak: Introduction to energy

credits: 3

Vakcode SIRE9ITE
Naam Introduction to energy
Studiejaar 2023-2024
ECTS credits 3
Taal Engels
Coördinator J.C.W. Gazendam

Werkvormen Gastcollege
Hoorcollege
Werkcollege
Toetsen Introduction to energy - Opdracht

Leeruitkomsten

1. Analysering (general description)

Before creating a professional product, the legal professional must analyse the legal practice. Next, they must formulate the relevant legal questions in support of their position in the case. The legal professional must have adequate research skills, systematically selecting and gathering relevant legal sources, such as legislation and case law. Their analysis process should include the gathering, selection, qualification and analysis of information on the practical situation, the resulting relevant facts and legal sources. The legal professional must complete all stages of this process in order to deliver a satisfactory professional product.

Advising (general description)

After clarifying the legal question at hand, the legal professional investigates the relevant facts, positions, interests, legal sources and applicable legislation. Having analysed the situation, they then provide a reasoned recommendation - either verbally or in writing - in the appropriate format and terminology. Their considerations provide insight into the underlying process and their understanding of aspects such as customer friendliness, effectiveness, usability and support.

Organising (general description)

The legal professional is responsible for the compilation, management, accessibility and transfer of legal files and information within their own professional legal organisation or chain. They are capable of efficiently and effectively organising and implementing legal services, processes or projects. They also have a keen eye for developments - digital or otherwise - with the potential to innovate and improve legal services and processes. They are capable of cooperating with professionals from various disciplines and continuously strive to improve both their own performance and that of the organisation.

Innovation (general description)

The legal professional identifies the implications of new laws and regulations, directives and other government agreements at micro, meso and macro level. They apply insights from current national and international legal research and conduct independent research to identify any potential issues where necessary. They then formulate well-founded recommendations on policy and other issues and/or propose preventive measures, taking account of relevant political and societal developments. They help to improve the state of practice at micro, meso and macro level by researching sources and other relevant information. The legal professional initiates discussions on evidence-based approaches and improvement measures, and contributes to their implementation.

Inhoud

The Energy Kick Start Week is part of this course. In five themes, students will acquire basic knowledge on energy transition from a systems and multidisciplinary perspective. Themes consists of preparations, guest lectures and a workshops and/or assignment in the first week.

After the first week some topics will be explained in tutorials and exercises.

- The need for energy transition

Climate change, CO2 emission reduction, energy security, resource depletion, economic growth, stock- and flow resources.

- Energy systems

Energy systems, energy systems representations, energy balances of countries, system decomposition, fundamentals of electric power systems, electricity generation, power system balance.

- Renewable energy

Integration of renewables in the current energy system, position of power plants in a transitioning system, different forms of flexibility. Trias Energetica, role of ICT in energy systems, smart grids and smart homes, standardisation, role of end user (motivation, consciousness), central vs decentral (to down vs bottom up)

- Energy markets & players

Market actors, prosumers, energy markets, energy market liberalization (historical perspective; changes between countries), European energy law, national energy law, consumer empowerment, energy law (heat, gas and electricity): global overview; no specific laws; laws, agreements, regulations and guidelines.

Energy scenarios

Scenario approaches, functions of scenarios, interpreting scenario results, energy modelling, Energy Transition Model, existing scenarios.

Opgenomen in opleiding(en)

Minor Energy markets

School(s)

Instituut voor Rechtenstudies

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