

Opleiding

Toegekend diploma

Master of Science

Programmaduur

18 maanden

ECTS credits

90

Niveau eindkwalificatie

Master

Vorm

Voltijd

Taal

Engels

School

Instituut voor Engineering

Locaties

Groningen

Energy for Society

Programmabeschrijving

The E4S master's educates energy transition professionals at a strategic level. These strategic energy transition professionals form a new generation of change agents and policy entrepreneurs who are familiar with social dynamics, have aspirations for a better life, and can deal with the challenges of transforming the complex systems of energy production and consumption.

The E4S energy transition professionals are able to operate in both the commercial and non-profit sectors, and in both public and private institutions. They combine a social change agent dimension with an understanding of energy systems transformation, both of which are academically grounded. The E4S energy transition professional is not only idealistic about sustainability, but also has a pragmatic and adaptive perspective.

The Master Energy for Society is an international 90 ECTS Master's programme. It is an 18-month English-language program with the following structure:

Semester 1: Investigating Energy Transition;
Semester 2: Making Energy Transition happen;
Semester 3: Graduation.

Leeruitkomsten

The Master Energy for Society equips its students with the required learning outcomes for an energy transition professional at a strategic level.

1. The energy transition expert can, on the basis of acquired theoretical and practical knowledge, analyse difficult and complex developments in the energy transition and make underlying structures and mechanisms in communities visible.
2. The energy transition expert can develop an innovative future vision of the complex issue of energy transition in collaboration with stakeholders and communicate about this vision in an effective and convincing manner to professionals, non-professionals and academic audiences.
3. The energy transition expert can realise system innovation experiments (in niches) by navigating between and forming innovative networks and alliances capable of taking action.
4. The energy transition expert can embed and scale up innovative solutions in relevant networks and subsystems within the energy transition.
5. The energy transition expert can observe, stimulate, supervise and monitor transition processes in multidisciplinary and multi-level groups, and allow these groups to reflect on the transition in a cyclical process.
6. The energy transition expert can switch between process and interdisciplinary content and take the right substantive steps at the right time, taking into account the ambivalence that a long-term transition process must also produce concrete results in the short term.
7. The energy transition expert works with high ethical standards in the energy transition process.
8. The energy transition expert can design, carry out and evaluate practice-based research, thereby contributing to the innovation of the profession in the field.
9. The energy transition expert can independently and self-directly shape his own professional development and the development of others in a (learning) community.

Programma

Energy for Society

credits

Investigating Energy Transition	30
▫ ESVM21PSS - Politics for the Sustainable Society	5
▫ ESVM21LASS - Legal Aspects for the Sustainable Society	5
▫ ESVM20CB - Communication & Behaviour for the Sustainable Society	5
▫ ESVM19ETS - Energy Technologies and Systems for the Sustainable Societysystems	5
▫ ESVM21ESS - Economy for the Sustainable Society	5
▫ ESVM20SRM - Science & Research Methodology	5
Making Energy Transition happen	30
▫ ESVM21BCEL - Building Communities and Energy Landscapes	10
▫ ESVM21GRO - Governance, Responsibility and Ownership	10
▫ ESVM21CCS - Changing Complex Systems	10
Graduation	30
▫ ESVM20PDT - Professional Development Track	5

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