Innovative energy education in the Netherlands

new approaches and opportunities in energy transition
Innovative energy education in the Netherlands

MISSION
Making energy transition work
Multidisciplinary approach to energy problem-solving,
Emphasis on quality of life, both regional as well as global
Applied research in co-operation with professional practice

new approaches and opportunities in energy transition
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Hanze University of Applied Sciences, Groningen

Energy Transition

central to the most innovative developments in the North of the Netherlands

EUREC

Energy Academy Europe
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The creation of new Masters’ education in renewable energy

- MSc Renewable Energy
- MSc Renewable Energy Systems and Management
- MSc Renewable Energy and Society
- MSc Renewable Energy and Trade
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The creation of new Masters’ education in renewable energy

- MSc Renewable Energy:
  The aim of the European Master in Renewable Energy is to train post-graduate students to fill the gap between the growing industry demand for specialised renewable energy expertise and the skills available in the job market.
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scale + system integration

Energy Transition in context
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The creation of new Masters’ education in renewable energy

Research basis in Renewable Energy at Hanze UAS: the Centre of Applied Research and Innovation - Energy (CARI-E)
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Facilities (EnTranCe - Energy Transition Centre)
Philosophy and Approach
Location and Collaboration
Research and Education
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Facilities (EnTranCe - Energy Transition Centre)
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“People in Power”

enabling transition through empowerment at local scale

Philosophy and Approach
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“People in Power”

enabling transition through empowerment at local scale

coupled with private/public sector collaboration leads to

Philosophy and Approach
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Open innovation
the best way to accelerate research and development

Philosophy and Approach
Innovative energy education in the Netherlands

**Open innovation**
the best way to accelerate research and development

and the best way to accelerate energy transition

Philosophy and Approach
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diagram

Philosophy and Approach
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Groningen: energy capital

Location and Collaboration
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Groningen: energy capital

Gas hub

Cluster

Applied Science

Location and Collaboration
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Groningen: energy capital

Partners at EntTranCe

the essential ingredient in professional MSc education

Location and Collaboration
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Masters of Science in renewable energy

- 4 different programs
- sharing similar approaches
- providing manpower for energy transition
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Masters of Science in renewable energy

- 4 different programs, sharing similar approaches providing manpower for energy transition
- innovative entrepreneurial and creative energy professionals
- able in communication, analysis and business or policy development
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Masters of Science in renewable energy

Roadmap to Education
Innovative energy education in the Netherlands

Masters of Science in renewable energy

An innovative response to Europe’s need
Masters of Science in renewable energy

An innovative response to Europe’s need
- agreement between all educational, research and business partners to collaborate in the process of energy transition
- facilities, expertise, organisational structures, motivation and combined potential in Groningen create opportunities for international co-operation and collaboration in the field of energy.
Innovative energy education in the Netherlands

Masters of Science in renewable energy

An innovative response to Europe's need
- agreement between all educational, research and business partners to collaborate in the process of energy transition
- facilities, expertise, organisational structures, motivation and combined potential in Groningen create opportunities for international co-operation and collaboration in the field of energy.
- students are fully involved within innovative environment using cutting-edge technology to solve extremely relevant challenges
- connected to national industry based network and international research and educational network.