“If we want things to stay as they are, things will have to change.”

Dr. Ir. Jan-jaap Aue

Hanze University of Applied Sciences
Hanze University of Applied Sciences Groningen

• Established in 1798

• Policy plan 2012-2016 rated “Excellent” by ministry: extra governmental funding.

• Professionally oriented higher education

• 70+ Bachelor programmes, 18 Master programmes;

• 17 Schools with each their own atmosphere;

• 3 focal areas: Energy, Healthy Ageing, Entrepreneurship

• Partner in the Energy Academy Europe

• 26,500 students choose our university; 10% international, 72 nationalities
Hanze University of Applied Sciences has been ranked in the top 25 educational institutions in the world, for its applied research according to U-Multirank 2016.
Economic view of the region
Cooperation of Businesspartners, Hanze University of Applied Sciences, University of Groningen)

- Urgent energy challenges (global warming, energy security, economic growth) for public and private sector.
- **Open model in education / research / innovation**
- **Focus on transition** to sustainable, reliable and affordable energy

Facing these challenges requires:
- Vital **knowledge and experience** in energy matters
- A continuous supply of properly trained **personnel**
- High quality **multi-disciplinary approach** in education and research

- Energy Transition: new business opportunities!
- Fieldlab of Energy Academy Europe at Hanze UAS: **EnTranCe** (The Energy Transition Center)
October 2015 Opening by King Willem Alexander

EnTranCe is open

share your talent. move the world.
2015 : Commissioner Sefcovic @EnTranCe
Mission

At the Centre of Expertise Energy, we speed up innovations needed for the transition towards a sustainable energy society. We contribute by applied research and education.

In co-creation, students, researchers, companies and societal organisations work together on realising the energy transition. In this learning community we develop and share new applicable knowledge and create business opportunities.
Together with partners and local communities we develop concepts for (at Least) 5 sustainable (Emission Neutral) communities in our region.

In 2022 we educated 1500 EAE certified Energy Students.

We realised 25 Energy Startups per year.

We induced 25 million Euros of investments in our region based on our concepts.
- Inter-disciplinary
- Multi-Level
- Co-ownership
- Young People
- ‘Just do it’
- Show options and their impact
- Stakeholders Dialogue

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Position: Bridging Two Worlds

Hanze UAS

Decentral when possible, central when necessary

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Educational programmes
- Energy Routes in 10 schools leading to EAE certification
- Learning Community
- Master (MSc) portfolio
  - European Master Renewable Energy
  - Master Sustainable Energy System management
  - Master Energy 4 society (under dev)

Applied Research
- Hybrid energy system design & Management
- Alternative gasses and hybrid-fuels
- Energy interventions and behaviour, public support and communication
- New economic realities, labour market, governance and legal aspects in the energy sector
- Sustainable communities and local initiatives

Facilities
- Energy Value Chain
- Energy Barn
- EnTranCe

Partners
- Business partners
- Governmental partners
- Societal partners
- stakeholders

How?

EnTranCe
ENERGY TRANSITION CENTRE

Love the world.
Toolkit & Power2X

- HydroGen
- LNG
- BioFuels
- Power2X

Smart → Storage → Conversion → Generation

Tool box → Tools

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Example: Clean Energy Design Model
Example: Clean Energy Design Model
Example: Clean Energy Design Model
What’s on offer?

- Collective Intelligence: brains of co-creation
- Office- and workspace
- Active network of energy related companies
- Access to knowledge and experience on energy
- A Stage to the world (8000+ visitors expected this year)
- Students!
- Access to Workshops (mechanical, electronics, chemical)
- Experimental test facilities: energy value chain
- Access to launching customers

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Change Agency Ameland in Transition

short video on EnTranCe and the island of Ameland

Long video on Entrance and the island of Ameland
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