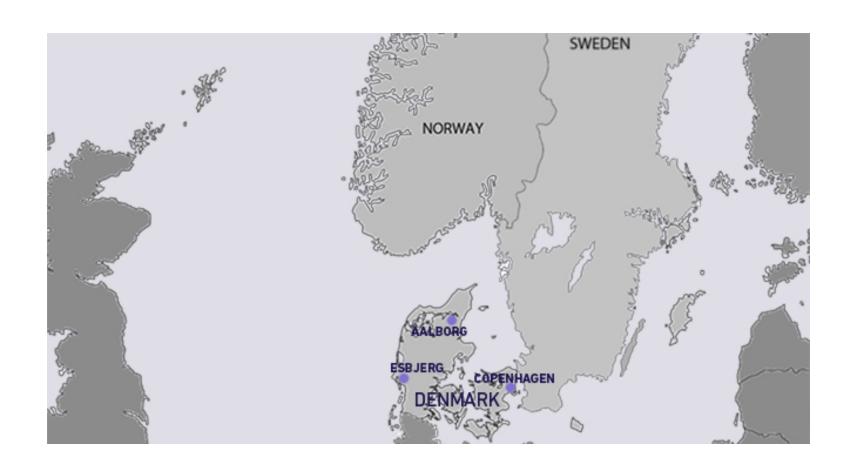# AALBORG UNIVERSITY
overview & activities

Vincenzo Liso
Department of Energy Technology
Aalborg University

Locations

Alborg

"the biggest carnival in northen Europe"

"Jomfru Ane Gade (English: Virgin Anne's Street), It is said to be the street with the longest continuous stretch of restaurants and bars in Denmark"

"According to a new study from the European Commission, Aalborg is home to the happiest people in all of Europe."

From Wikipedia - Aalborg

DEPARTMENT OF ENERGY TECHNOLOGY
AALBORG UNIVERSITY

Aalborg University facts

Aalborg University (AAU) was founded in 1974.

It offers education within the fields of

- natural sciences,
- social sciences,
- humanities,
- technical and health sciences.

HUMANITIES	SOCIAL SCIENCES	ENGINEERING AND SCIENCE	MEDICINE
Department of Communication and Psychology	Department of Sociology and Social Work	Department of Architecture, Design and Media Technology	Department of Health Science and Technology
Department of Culture and Global Studies	Department of Culture and Global Studies	Department of Electronic Systems	Department of Clinical Medicine
Department of Learning and Philosophy	Department of Learning and Philosophy	Department of Civil Engineering	
	Department of Business and Management	Department of Business and Management	
	Department of Political Science	Department of Computer Science	
	Department of Law	Department of Energy Technology	
		Department of Physics	
		Department of Biotechnology, Chemistry and Environmental Engineering	
		Department of Mathematical Sciences	
		Department of Mechanical and Manufacturing Engineering	
		Department of Development and Planning	
		Danish Building Research Institute	

The Aalborg PBL model

— Problem Based Learning

Based on real-life problems

— Project Organized Education

Project work supported by lectures and courses

— Group Work - groups of four to six students

Supervised by lecturers/professors

— Interdisciplinary Studies

Integration of theory and practice - Focus on Learning to Learn and methodological skills

— University Wide Model

Used in all faculties (with variations)

Key figures 2017

Regular students	20.729
-Thereof international students	3.174
Part-time students	2.549
PhD students	839
Academic staff (full-time)	2.321
Academic staff (part-time)	800
Administrative staff (full time)	1.409
Administrative staff (part-time)	543
Research publications	5.945
Financing (DKK million)	2.845

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INTERNATIONAL RANKING LISTS

- **US News World Ranking**

  no. 4 in the world within the field of engineering and best in Europe
- **Times Higher Education**

  no. 194 in the overall world university ranking

  no. 25 in the Top 100 of universities established within the past 50 years
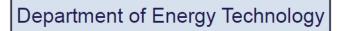- **Shanghai/ARWU World Ranking**

  no. 201-300 in the overall world university ranking

  no. 7 in the world within the field of Electronic and Electrical Eng
- **QS**

  no. 343 in the overall world university ranking

  no. 37 in the top 50 of universities established within the past 50 years.

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Department Organization

Department of Energy Technology

| Electric Power Systems | Power Electronic Systems | Electric Machines | Fluid Power and Mechatronic Systems | Thermo Fluids | Thermal Energy Systems | Esbjerg Energy Section |

Multi-disciplinary Research Programmes

- Wind Power Systems
- Fluid Power in Wind and Wave Energy
- Offshore Energy Systems
- Biomass
- Photovoltaic Systems
- Modern Power Transmission Systems
- Intelligent Energy Systems and Active Networks
- Microgrids
- Fuel Cell and Battery Systems
- E-Mobility and Industrial Drives
- Efficient and Reliable Power Electronics
- Thermoelectrics
- Green Buildings

Lab. Facilities:
Power Electronic Systems
Drive Systems Tests
Fluid Power
Smart Energy Systems Lab
Power Systems & RTDS
Micro Grid
High Voltage
Medium Voltage
PV Convert & Systems
Fuel Cell Systems
Battery Test
EMC
Vehicles Test Lab
Biomass Conversion Facilities
Proto Type Facilities

App. 60 faculty members
App. 100 PhDs
More than 30 guest researchers
App. 30 TAP
App. 360 students

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Selected Cooperation Partners
(Here I would include also partners of the FC research group)

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Thanks for your attention

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