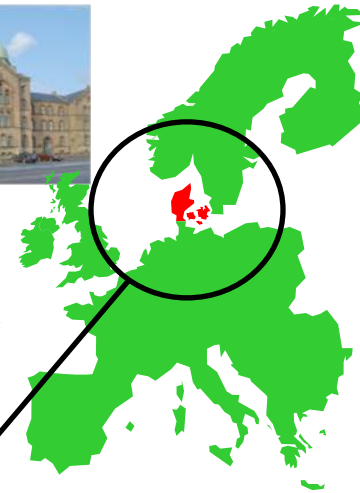






# University of Southern Denmark



Established 1966

Turnover: 351 mill. EUR

5 faculties:

- Engineering
- Science
- Health Sciences
- Humanities
- Business and Social Sciences

6 campuses

Academic staff: 1.973

Technical and adm. staff: 1445

Students, total no : 28.700

International students: 4700

Number of programmes: 222 of which 81 is in English

Leiden World Ranking: 188







# Organisation



## Faculty Management

Dean Henrik Bindslev

Director of Studies Henning Andersen

Head of Secretariat Søren Lind Christiansen

### Department of Innovation and Technology

Nano-optics, Structural dynamics, Energy Technology, Production, Robot Mechanics, Supply Chain Management, Product Development & Innovation, Design.

Head of Department

[Michael Evan Goodsite](#)

### The Maersk Mc-Kinney Moller Institute

Robot and Software Technology, Biological inspired robot technology, Cognitive vision, Mathematic Modelling, Embedded Systems, Power Electronics, Robot and IT technology for industry, agriculture, healthcare and welfare.

Head of Department  
Lars Dyhr

### Department of Chemical Engineering, Biotechnology and Environmental Technology

Analytical Chemistry, Spectroscopy, Natural Products Chemistry, Purification, drugs, Food Quality, Biogas, Biodiesel, Bacteria, Microalgae, Recombinant Proteins, Environment, Greenhouse Gases, Waste Management, Life Cycle Analysis, Advanced Materials Chemistry, Chemical Separation Techniques, Process Design.

Head of Department

Lars Porskjær Christensen

### The Mads Clausen Institute (Sønderborg)

Mechatronics, Control, Power Electronics, New Energy Sources, Energy Efficiency, Modeling, Nano- Micro- og Cleanroom Technology, New light Sources, Microfluidics, User-Oriented Design, Innovation & Business.

Head of Department  
Horst-Günter Rubahn





# TEK THREE

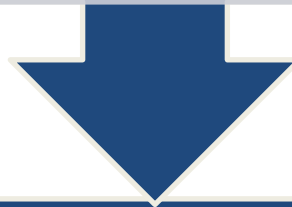
*Strategic focus areas – up to 2017*

Strategic focus areas connecting research, education and innovation

**Energy  
Technology**

**Production  
Technology**

**Welfare  
Technology**



**Multidisciplinary challenges in society, where TEK makes a difference**

These areas will get extra funding through strategic projects and initiatives at the Faculty.



# Engineering Programmes

## 11 Bachelor of Engineering programmes

Civil Engineering

Electrical and Electronic Engineering

Global Management and Manufacturing

Integrated Design

Interaction Design

Information and Communication Technology

Chemical Engineering

Mechanical Engineering

Mechatronics

Manufacturing Engineering & Management

Electrical Power Engineering

## 12 Master of Science in Engineering programmes

Energy Technology (master offered from 2014)

Physics and Technology

Innovation & Business

Chemistry

Structural Engineering (Master)

Learning and Experience Technology

Mechatronics

Environmental Technology (Master)

Product Development and Innovation

Robot Systems

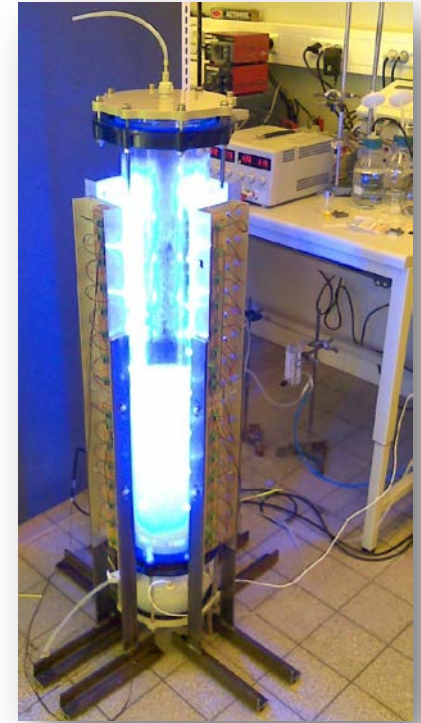
Software Engineering

Welfare Technology

### Furthermore TEK has:

- 1 Master programme - "IT Product Design"
- 2 Part Time Programmes
- Admission Course in Odense and Sønderborg

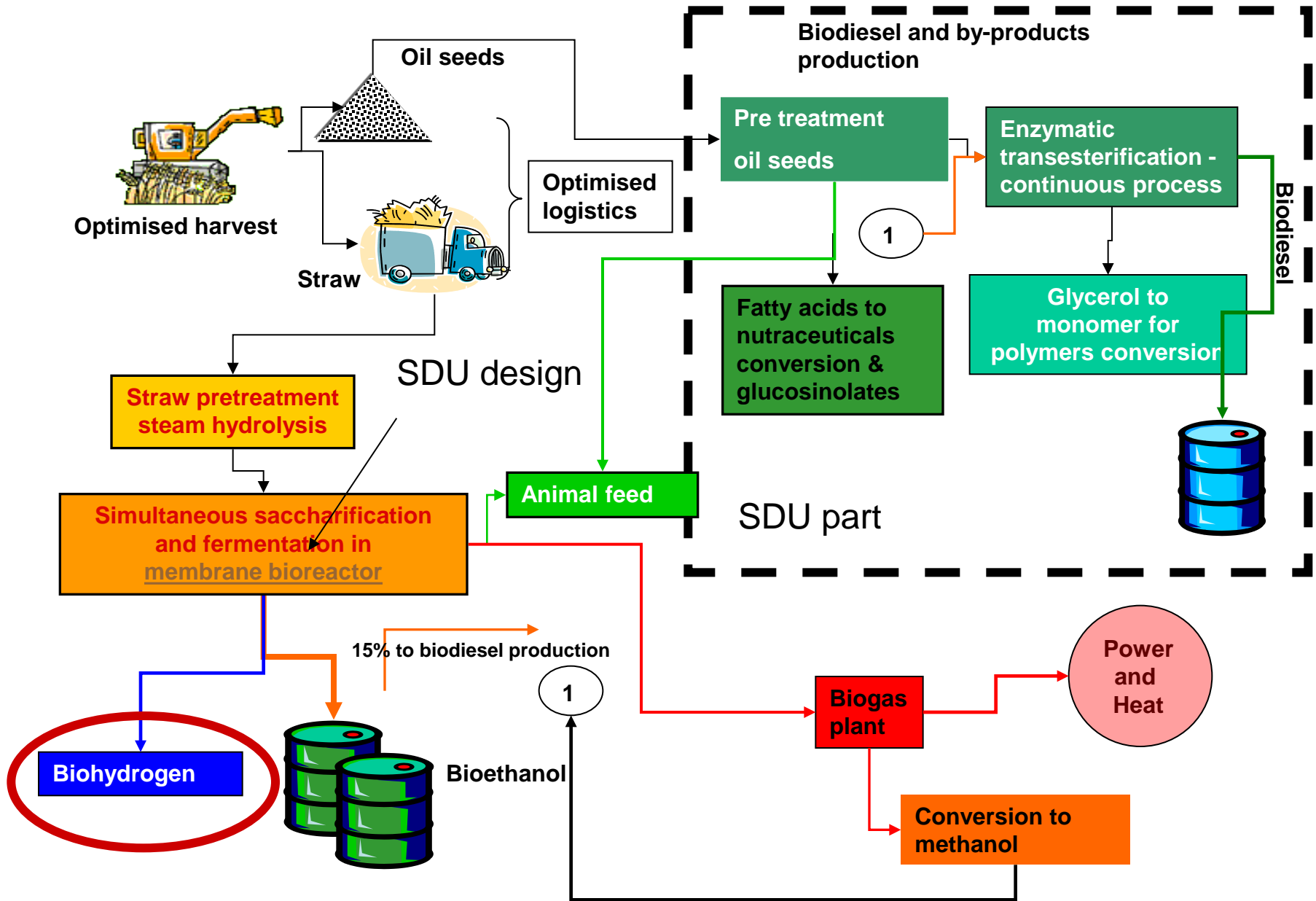




# Department of Chemical Engineering, Biotechnology & Environmental Technology (CEBE)



# BIO-fuel production





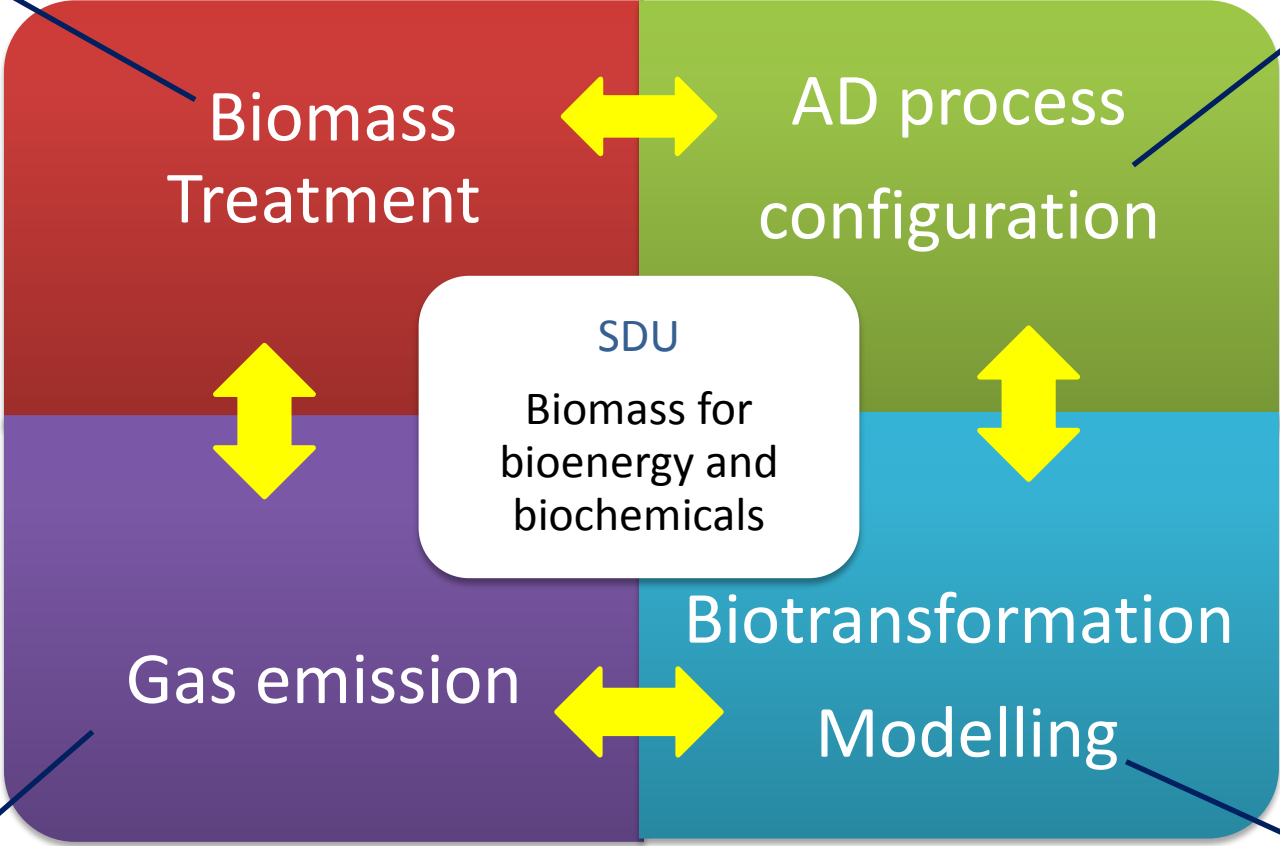
# Biotechnology – Organic Waste Management & Bioenergy Production

- ❑ Bioenergy production with focus on energy carriers: biogas and biodiesel.
- ❑ Green house gas (GHG) reduction.
- ❑ Nitrogen (N) and phosphorous (P) recycling.
- ❑ Environmental technologies for managing organic waste from agriculture.
- ❑ Developing country projects. see [www.susane.info](http://www.susane.info).



Pre-  
Interstage  
Posttreatment

Lignocellose  
Industrial waste  
New biomass



Biogas  
NH<sub>3</sub>  
GHG

Kinetics  
Chemometrics  
Thermic model



