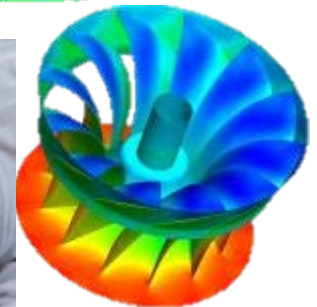
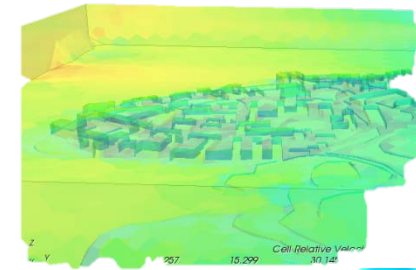




KTH Royal Institute of Technology

**Royal Institute of Technology
(KTH) - Stockholm
MSc Renewable Energy -
RENE**



**Program Coordinator :
Dr. Reza Fakhrai**



Learn by Doing

Renewable hybrid system



Computational fluid dynamics

Computational simulations for a range of fluid-flow applications.

Student Life at KTH



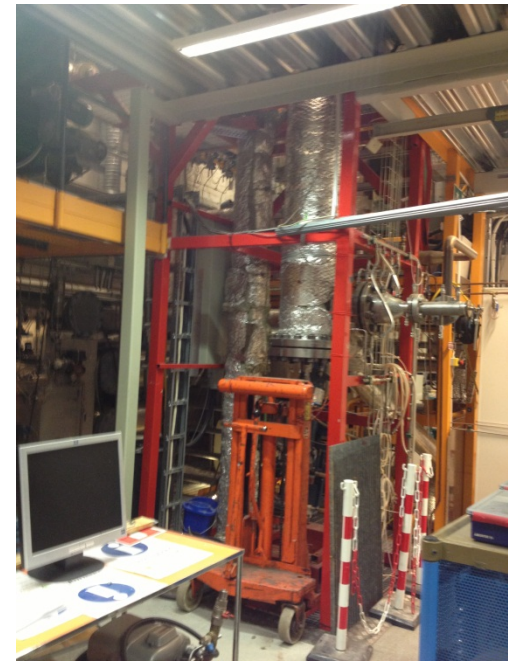
Hybrid Renewable Systems (HRS) at KTH

- Combine what you already know and learn new things in process
- Biomass, solar, Wind (hydro and geothermal)
- Learn to use these technologies as stand alone or in combination
- Rescue container as a umbrella for



RENE students

- Biomass, solar, wind, hydro and geothermal
- Learn to use these technologies as stand alone or in combination
- Rescue container as a umbrella for



Fuel Cell



Fuel Cell at KTH



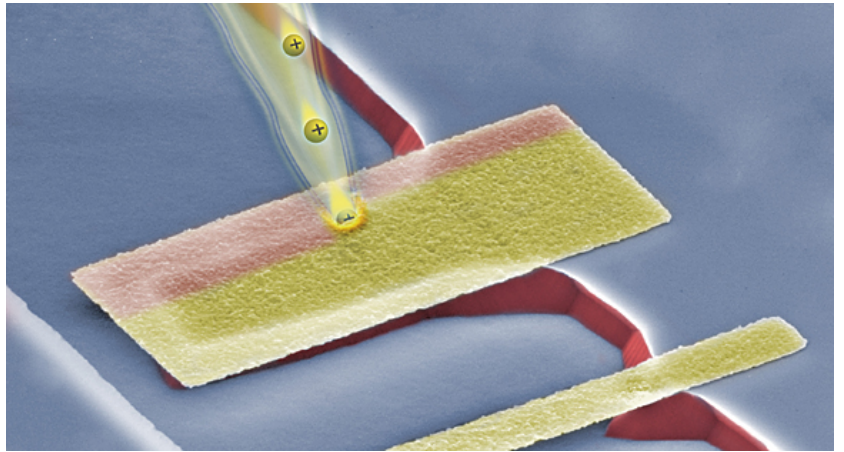
myFC

- Spin-off from KTH
- Founded in 2005
- World leader in micro-cell fuel



PowerTrek

- PEM Fuel cell charger
- Electricity from water and salt
- Focus of Investigation

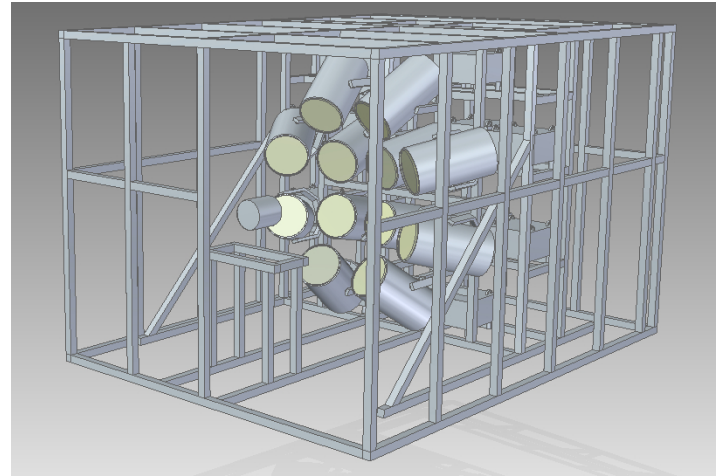


SOLAR Lab

- Solar Lab Inaugurated on 2105-01-27



SPLAR Lab Facility

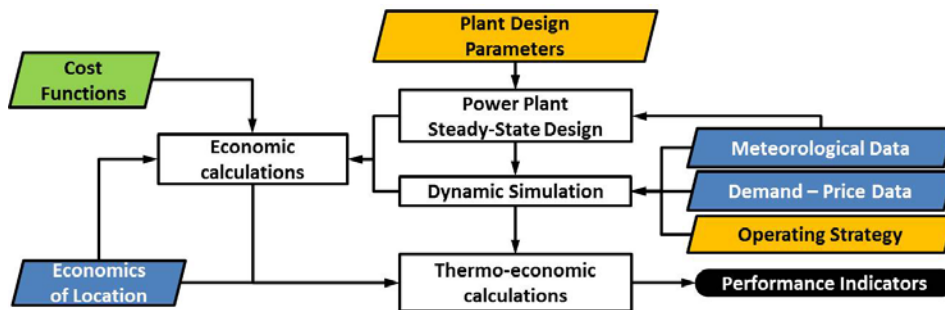


SOLAR Lab

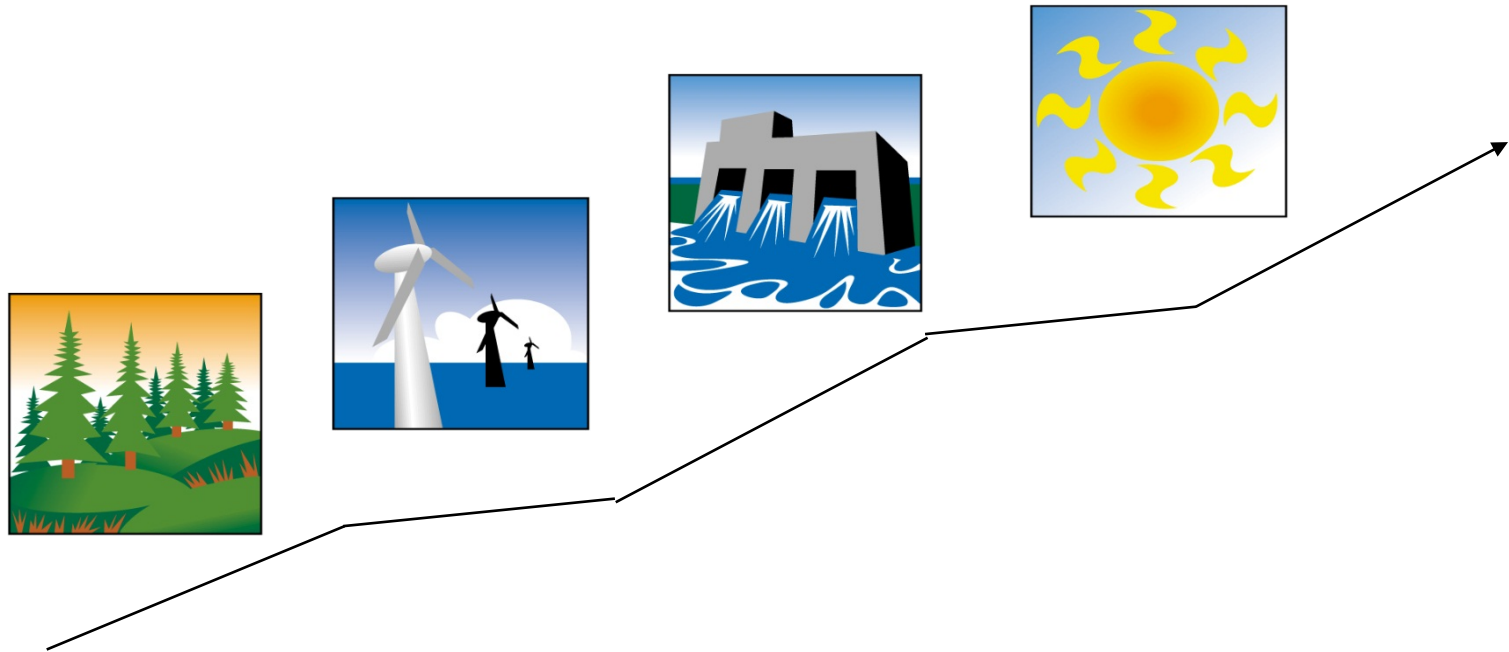
Activities within the CSP group are clustered on four key areas: [Read More](#)

- High-flux solar gas turbine design and testing,
- High-flux solar Stirling engine design and testing,
- Techno-economic analysis and market studies,
- Thermo-mechanical analysis of solar power plant components,
- Thermal energy storage integration strategies.

In order to learn more details about the CSP group, click on the tabs located at the left



RENE students will:



We address constraints and opportunities on the way to sustainability

- planning and patterns of energy generation and use
- resource competition and management
- development needs and preferences
- infrastructure and technology systems options
- policies and incentives to change and innovate
- financial sources and investment opportunities
- institutional challenges

RENE at KTH is focus on Hybrid Energy Systems

	ECTS	Sem. 1	Sem. 2
Specialization	60		
Compulsory courses	48	18	30
Elective courses			

Code	Courses	ECTS	Sem.	Type
MJ2494	<u>Polygeneration</u>	9	1	Mandatory
MJ2496	<u>Innovation & Entrepreneurship in Sustainable Energy Engineering</u>	6	1	Elective
MJ2409	<u>Applied Energy Technology, Project Course</u>	9	1	Mandatory
Elective courses				
MJ2495	<u>Experimental Energy Technology</u>	8	1	Elective
MJ2429	<u>Turbomachinery</u>	6	1	Elective
MJ2470	<u>Climate Change Mitigation Tools</u>	6	2	Elective
MJ2424	<u>Computational Methods in Energy Technology</u>	6	2	Elective
MJ2473	<u>Energy Policies</u>	6	1	Elective
Master Thesis		30		
	Master Thesis	30	2	Mandatory