

# 32<sup>nd</sup> Spring School 2025

the Institute for Renewable Energy Systems  
**invites to the 32<sup>nd</sup> Spring School FUSES at**  
**19<sup>th</sup> & 20<sup>th</sup> March 2025**  
(online afternoons)  
**+ 31<sup>st</sup> March – 12<sup>th</sup> April 2025**  
(in presence at Stralsund University)







# Stralsund

North-East Germany  
in the federal state  
Mecklenburg-  
Vorpommern





## About UAS Stralsund

**Founded:** September 1991 with 175 students

**Students:** approx. 2,400 winter semester 2021/22

**Schools:** Electrical Engineering and Computer Sciences,  
Mechanical Engineering, Economics



- young and innovative university
- modern equipment
- perfect staff-student ratio

- located next to the Baltic Sea
- perfect conditions for studying, research and quality of living
- top-ranked





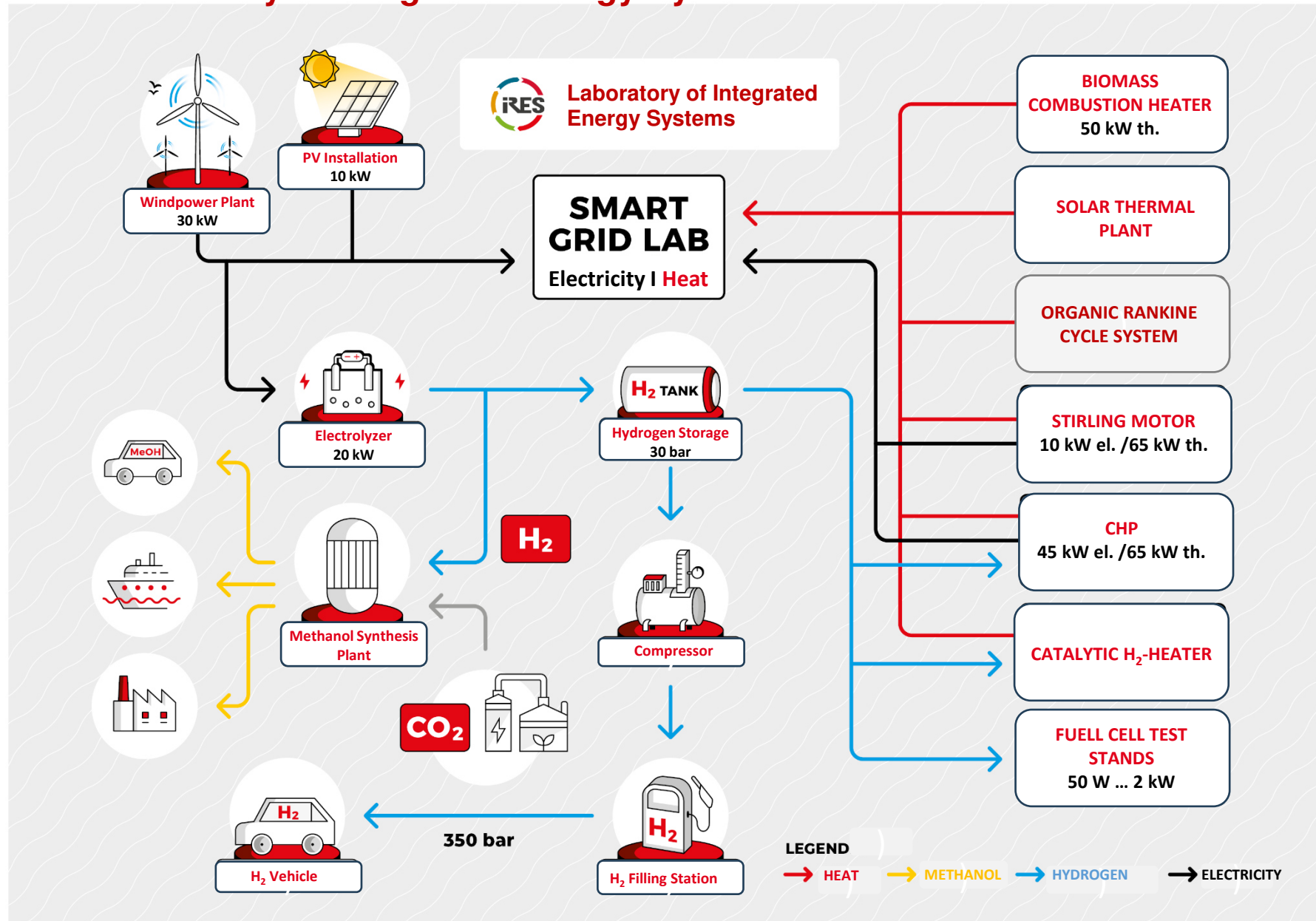
## What's in it for you?

You join a 2 weeks international training school with focus on renewable energy and hydrogen technology:

- **Seminars** on all issues of renewable energy and hydrogen technology
- **Labs on hydrogen technology and renewables** and presentation of lab results
- **Exchange about students' home countries** and the energy situation there
- **Excursion to the Hannover Fair**
- **Intercultural get-together** and barbecues for students and professors
- **Examination & farewell party**



# Our Laboratory of Integrated Energy Systems



## Spring School Labs:

- H<sub>2</sub> production experiments
- Automation of a fuel cell system
- H<sub>2</sub> usage in a catalytic burner
- Heating & cooling measurements
- modelling energy storage systems with Matlab/Simulink
- ... and more



# What's in it for you?

## Topics covered in seminars:

- Conversion and de-carbonization of electricity flows into sustainable energy and material cycles
- Utilization of renewable energy and feeding of volatile - green - electricity into the smart grids of the future
- Storage technologies for electric, heating/cooling and transportation systems
- The role, production and use of hydrogen as a clean energy carrier in PtX technologies
- Fuel cells - perfect converters for a better energy/energy ratio
- Efficient conversion technologies for mobility / heat and power supply like drives, heat pumps etc.
- Integration and efficient use of bio and waste energy
- Societal aspects of the energy transition





## What's in it for you?

**You learn together in mixed teams of international students:**

- Students from Estonia, Lithuania, Poland, Norway, Finland, Netherlands, Bulgaria, Brazil and Columbia

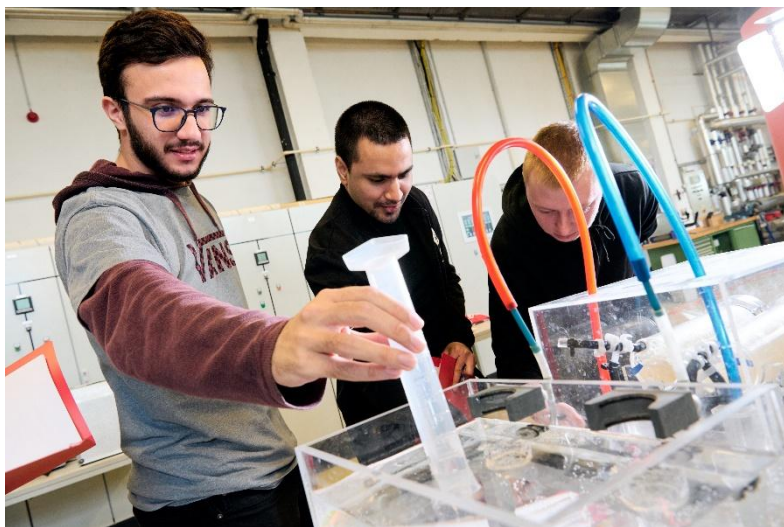
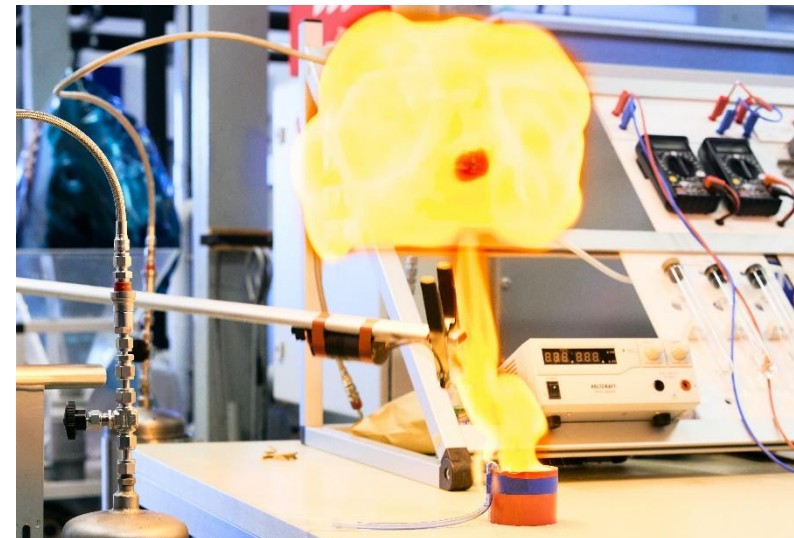
**You will be provided with expertise from many different energy technology fields and a variety of scientific perspectives:**

- Lecturers from different partner universities from Finland, Norway, Poland, Lithuania, Bulgaria, Brazil, Netherlands and Germany





# Impression from previous spring schools







Welcome to University of  
Applied Sciences Stralsund!

See you in April 2025!



# Contact

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