

Renewable Energy Learning Lab

RELab

The challenge

We are missing facilities and a place for energy engineering students where they could carry out experiments related to their studies and develop their own ideas for research and innovation.

The Project Idea

Your task is to design energy students' learning facility as a **product** that has all technical, pedagogical, economical and very importantly, safety issues carefully analyzed. You will collaborate closely with our Energy teachers, research staff and students to make this a great learning experience for future students.



Dream vision

Our dream is that by the spring of 2023, we would have the first version of the **RELab** in place for students. We have already a budget to purchase key components of the system. For example, the following systems could be part of the RELab Version 1.0: Wind turbine, PV panels, batteries, mechanical potential energy storage, pumped hydro energy storage, electrolyzer-fuel cell H₂ system.

Background and more information

Aalto's own energy Master's program Aalto Advanced Energy solutions, AAE, is continuously developing its courses and teaching to have an outstanding learning experience for our students. We want to raise the hands-on way of learning on a much higher level and develop a real Renewable Energy Learning Lab within the Aalto Design Factory. Welcome to work with us!

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