

**Title:** Projet HAEOLUS - System HAEOLUS

**Date:** Tuesday 7 June 14:30 - Friday 10 June 8:45

**Position:** Associate professor

**Institution:** FEMTO-ST / UTBM

**Email:** elodie.pahon@utbm.fr



### Biography and expertise:

Elodie Pahon received her M.S. degrees in electrical engineering from the University of Franche-Comté, France, in 2012 and the Ph.D. degree in engineering sciences from University of Franche-Comté, France, in 2015. She is an associate professor at University Technology Belfort Montbeliard (UTBM) and makes her research in FEMTO-ST Energy department (SHARPAC team) and FCLAB. Her current research focuses on the hydrogen systems (fuel cell & electrolyser) durability by developing diagnostic, prognostic and smart control approaches. She has been awarded by the Hydrogen Europe Research in the transport pillar, in 2018.

### Presentation:

What about electrolysis?

Coupling between renewable energy and electrolyser for green hydrogen

HAEOLUS example

Electrolyser modelling – a flavor

Concluding remarks

Haeolus is a EU project that proposes a new-generation electrolyser integrated within a state-of-the-art wind farm in a remote area with access to a weak power grid. The presentation will present the HAEOLUS project as an example of the coupling between renewable energy and electrolyser for green hydrogen. After presenting a flavor of electrolyser modelling the presentation will finish with concluding remarks.

We are happy that Haeolus is one of the projects participating at the organization of the Virtual FCS 2022 Summer School.