



Eseia International Online Summer School 2023
25th September — 6th October 2023

Green Hydrogen Solutions for Climate Friendly Energy Production

Arranged by
North Savo Energy Cluster partners in Finland
and with ESEIA (European Sustainable innovation alliance) network in Europe.



ESEIA International Online Summer School 2023

Course Information



Objectives

Green Hydrogen - Solutions will have an important role in future energy systems aiming for carbon neutrality in the energy sector. Students will receive a comprehensive overview of national and international development trends of the hydrogen economy, when looking for solutions to replace fossil energy sources. The course provides information on future energy systems, hydrogen production, logistics, storage and use as fuel and raw material for synthetic fuels, providing the skills to work in research, development and implementation tasks of new technologies that promote the hydrogen economy.

Content of the Summer School

- Introduction
- Lectures (Green Hydrogen—Solutions)
- Supervised group works (Green Hydrogen—Solutions case study)
- Presentations of group works

Teaching Methods

The Summer School 2023 is an online course arranged in September 2023 during weeks 39 and 40.

The course is evaluated based on activity on the course and the returned assignment (with grading scale passed (P) – failed (F))

The results of group work assignment should be presented 6.10.2023.

Learning material

The material will be given via Moodle during the course. The Moodle environment for this course will be open for introduction on 01.09.2023.

It will be given an overview of different technologies (renewable energy production, hydrogen production, logistics, storage and use of hydrogen as fuel and raw material for synthetic fuels).

Practical training and working life connections

- A part of lectures (related to different kinds of Green Hydrogen technologies) are given by representatives of industrial companies.
- The topics of group works have working life connections.

Students use of time and load

- the on-line course is arranged during weeks 39 and 40
- the lectures are given during week 39 daily from 3.00 to 6.00 pm
- week 40 is reserved for group works (supervision is given daily from 3.00 to 6.00 pm)
- 6.10.2023 from 3.00 to 6.00 pm is reserved for presentation of group works.

Prerequisites

Higher education degree.

The official language of the course is English.

Registration

Registration will be open 1.8.2023—24.9.2023 on the following site: <https://ella.eduplan.fi/savonia/realizations/648ffbc64d800001d922735?lang=en>

Fee info

Participation in the Summer School is free of charge, but attendants are responsible for covering all other possible costs.

Organizer

The course will be arranged together with North Savo Energy Cluster partners in Finland and with ESEIA (European Sustainable Innovation Alliance) network in Europe.

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