

FCHgo! Discover the energy of hydrogen

The EU project FCHgo brings energy to European classrooms by supporting hydrogen and fuel cells education in schools

Hydrogen is the most abundant element in the world and a clean energy carrier, but in classrooms the H₂ energy potential is a rarely treated subject. Basic principles of FCH functioning and benefits however are an important subject for school education, ensuring young minds are well equipped for the energy transition and ecological thinking becomes an integral part of their lives. To support energy education in classrooms, the EU project FCHgo develops an innovative narrative-based teaching concept and multimedia materials, inspiring teachers, pupils and their parents alike about the world of hydrogen energy.

A practice-oriented educational toolkit for interactive lessons on fuel cell and hydrogen

FCHgo develops an educational toolkit adapted to teaching pupils from age 8 to 18 years. The toolkit will contain games, stories, roleplays and experimental kits that visualize the functioning of energy processes and inform pupils about the manifold applications of hydrogen. In order to ensure materials are well aligned with educational practice and draw on latest FCH research and industry developments, FCHgo partners will involve a wide range of stakeholders from education, science and industry.

FCHgo seeks to contribute to energy science education at large by proposing narrative and playful approaches to FCH teaching. The goal is to not only transfer knowledge on fuel cells and hydrogen, but to stimulate pupils' interest and open their minds to the world of science.

Bringing energy to classrooms: FCHgo pilot activities at schools

FCHgo offers schools in project partners' countries - Denmark, Germany, Italy, Poland and Switzerland - to discover the toolkit in six dedicated lessons on renewable energy and hydrogen. The narrative explanations and playful elements of the toolkit illustrate complex energy processes not only to pupils, also teachers benefit from the flexible and easy-to-implement materials. FCHgo will support the implementation of the toolkit and accompany three lessons in participating schools.

Stimulating innovation: The FCHgo award for young inventors

FCHgo paves the way for future inventors, launching an annual Europe-wide school competition, awarding the most innovative H₂ applications developed by pupils. The first edition will be held in spring 2020, calling for contributions from young minds all around Europe. Pupils participating in the award will be able to transfer their knowledge into practice, explore the possibilities of hydrogen and contest their skills as inventors. Sponsors are welcome to support the award.

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Project duration: 01/2019 – 12/2020





Project Summary

EU project FCHgo brings energy to classrooms with interactive lessons on hydrogen

Hydrogen is the most abundant element in the world and a clean energy carrier, but in classrooms the H₂ energy potential is a rarely treated subject. The EU funded project FCHgo brings about change by developing a new set of tools for hydrogen education at schools. With games, stories, roleplays and examples from hydrogen applications the FCHgo toolkit pursues a playful and practice-oriented approach to teaching pupils from 8 to 18 years about the world of hydrogen. FCHgo offers schools in Denmark, Germany, Italy, Poland and Switzerland to implement the toolkit in their classrooms. Furthermore pupils from all European countries are invited to participate in the FCHgo Competition, to be launched in spring 2020, awarding innovative H₂ science school projects.

In FCHgo hydrogen researcher, science education experts and facilitators work together on inspiring pupils and teachers alike about hydrogen and its role in the energy transition. The University of Modena coordinates the two year project, which started in January 2019.

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