

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 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. Containing games, stories, roleplays and experimental kits the toolkit visualizes 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 involve a wide range of stakeholders from education, science and industry in the production of materials.

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 partner countries Denmark, Germany, Italy, Poland and Switzerland to explore the toolkit in six dedicated lessons. The toolkit facilitates conveying complex energy processes not only to pupils, also teachers benefit from the flexible and easy-to-adapt materials. Starting September 2019, FCHgo will support the toolkit implementation and accompany three lessons in selected classrooms. Schools can apply via the FCHgo website, www.fchgo.eu

Stimulating innovation: The FCHgo award for young inventors

Future inventors have the opportunity to prove their knowledge and contest their skills in the FCHgo international contest. Teams of pupils are challenged to develop an innovative H₂ application together with their teachers or supported by industry stakeholders. The contest's first edition will be held in spring 2020. Sponsors are welcome to support the award.

FCHgo is funded by the European research and innovation programme Horizon 2020 under the Fuel Cell and Hydrogen Joint Undertaking (FCH JU). The University of Modena Reggio Emilia coordinates the project in cooperation with InEuropa srl, Zürcher Hochschule für angewandte Wissenschaften, Technical University of Denmark, Nicolaus Copernicus University, Free University of Bozen-Bolzano and Steinbeis 2i GmbH.

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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 and Reggio Emilia coordinates the two year project, which started in January 2019.

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