

EU project FCHgo presents new toolkit for conveying the relevance of hydrogen and fuel cells to pupils

The future potential of hydrogen is a rarely discussed topic in European schools. FCHgo strives to change this with a newly developed toolkit for pupils aged 8-18, which is now available on the project website.

Interactive lessons with the FCHgo toolkit

The toolkit contains innovative educational materials for teaching the topic of energy and hydrogen fuel cells. Teachers can use the toolkit's story, video, playing cards, role plays, PowerPoint presentations and more for delivering interactive lessons, conveying the 'energy of hydrogen'. Individual lesson plans for different grades and teacher guides for each material help with implementing the toolkit in class. First versions of the materials can be downloaded free of charge on the [FCHgo project website](#).

Different learning materials for pupils of primary and secondary school

Even the youngest can learn about energy and hydrogen with the FCHgo toolkit. Reading the toolkit's apple story, for instance, they explore how apples grow and energy is generated through the interaction of water and sunlight. In the energy role play activity, pupils write their own story about hydrogen and fuel cells and present it by playing the energy sources themselves. PowerPoint presentations about climate change, electrochemistry and alternative energy sources facilitate fact-oriented discussions with older students.

The new toolkit offers many opportunities to introduce children to (renewable) energy, hydrogen and fuel cells in a playful way.

FCHgo toolkit is based on narrative approach to science education

The materials of the toolkit were jointly developed by the University of Modena and Reggio Emilia (UNIMORE), the Zurich University of Applied Sciences (ZHAW), the University of Nicolaus Copernicus (UMK) and the Technical University Denmark (DTU). The toolkit's approach follows narrative, imaginative and playful methods of teaching and is based on the extensive research of UNIMORE's *Center for Metaphor and Narrative in Science* in this area.

Teachers, didactic experts and stakeholders from the FCH industries supported the development process of the FCHgo toolkit and validated the materials in different co-creation workshops. About 82 teachers tested the toolkit in the framework of the [FCHgo classroom pilot activities](#) in Denmark, Germany, Italy, Poland and Switzerland. Results of this test phase feeds into the continuous review and redaction of the materials.

To learn more about the toolkit, follow this link: <https://fchgo.eu/toolkit-development/>



Teaser for website announcements and mailings

EU project FCHgo presents new toolkit for conveying the relevance of hydrogen and fuel cells to pupils

The FCHgo toolkit brings hydrogen energy to the classroom. Teachers can use the toolkit's story, video, playing cards, role plays and PowerPoint presentations in interactive lessons conveying the principles of energy and hydrogen and fuel cells technology. Individual lesson plans for different grades and teacher guides for each material help with implementing the toolkit in class. The entire set of materials can be downloaded free of charge on the FCHgo project website. <https://fchgo.eu/toolkit-development/>

Project Summary

EU project FCHgo brings energy to classrooms with interactive lessons on hydrogen and an international contest for pupils

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 delivering a new set of tools for teaching hydrogen at schools. With games, stories, roleplays and examples from fuel cells and hydrogen applications the FCHgo toolkit pursues a playful and practice-oriented approach to conveying pupils from 8 to 18 years the energy of hydrogen. Besides inspiring classroom activities organized by FCHgo partners, pupils from all over the world invited to participate in the FCHgo award 'World of the Future: The best FCH application'. The international competition challenges pupils from primary and secondary school to develop an innovative science project about a future FCH application.

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.

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 and Steinbeis 2i GmbH.

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