

FCHgo! in a nutshell

Preparing generation Z for the energy transition

FCHgo is an EU funded project dedicated to fostering knowledge about fuel cell and hydrogen technology in schools and beyond.

FCHgo invites teachers, pupils and their parents alike to explore the world of hydrogen energy along inspiring activities.

FCHgo stands for a practice-oriented and holistic science education, sparking pupils' excitement and curiosity about renewable energy.



FCHgo! Partners



University of Modena and
Reggio Emilia, Italy
www.unimore.it



InEuropa srl, Italy
www.progettareineuropa.com



Technical University of Denmark
www.energy.dtu.dk



Free University of Bozen-Bolzano, Italy
www.unibz.it



ZHAW School of Engineering, Switzerland
www.zhaw.ch



University Nicolaus Copernicus, Poland
dydaktyka.fizyka.umk.pl



Steinbeis 2i GmbH, Germany
www.steinbeis-europa.de

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www.fchgo.eu



Discover
the energy
of hydrogen

FCHgo! Discover the energy of hydrogen

Despite hydrogen being the most abundant element in the universe, the great potential and significance of H₂ energy for a sustainable future of our planet is rarely treated in European classrooms.

FCHgo brings hydrogen energy into schools

FCHgo seeks to develop and deploy an innovative hydrogen and fuel cells educational model together with teachers and stakeholders from the hydrogen industries.

Based on stories, games and close-to-life experiments, the FCHgo models of teaching shall foster pupils' hands-on experience of hydrogen and fuel cells technology, while also enhancing their general understanding of energy principles.

The FCHgo activities will encourage pupils from age 8 to 18 years to discover all about hydrogen and its applications in energy storage, mobility and more. By participating in FCHgo pupils not only acquire knowledge about hydrogen, but build up key competences in STEM - Science, Technology, Engineering and Mathematics.



This project has received funding from the Fuel Cells and Hydrogen 2 Joint Undertaking (JU) under grant agreement No 826246.

FCHgo! Toolkit

Facilitating understanding for the way energy works through stories, plays and images

To support the teaching of hydrogen energy at European schools, FCHgo develops practice-oriented educational materials suitable for children age 8 to 18 years. **‘Discover the energy of hydrogen’** – that is the claim and scope of the toolkit crafted by FCHgo, combining illustrative stories, games, plays and hands-on experiments.

The toolkit comprises, for kids from 8-13 years:

- A set of playing cards and roleplay instructions translating energy processes into play
- A storybook conveying the nature of energy through narrative and pictures
- An animation illustrating the generation and transfer of energy
- Guidelines for simple experiments

For teens from 14-18 years:

- Factsheets about hydrogen and fuel cells & their use and application in industry
- Experimental kits for hands-on experience
- Process diagrams for translating and illustrating energy chains

The toolkit is being co-developed by experienced education scientists and hydrogen specialists of the FCHgo consortium, together with hydrogen industry representatives and teachers.



FCHgo! Classroom activities

Hydrogen energy brought to European classrooms

To create real and lasting momentum for hydrogen education in schools, FCHgo implements pilot classroom activities in FCHgo partner countries Denmark, Germany, Italy, Poland and Switzerland. Teachers and school principals interested to forge new paths in energy education are invited to open their classrooms for FCHgo and test the toolkit in six inspiring lessons.

Within its pilot classroom activities FCHgo offers:

- Introduction and training sessions for teachers on hydrogen/fuel cells and how to teach the topic best, using the FCHgo toolkit
- Three lessons given by a FCHgo expert team
- Support to teachers for another three lessons

Hydrogen industry stakeholders also contribute to the classroom activities, e.g. by presenting their field of work to pupils.

More information about benefits & conditions of participation under www.fchgo.eu/get-involved/teachers-schools



FCHgo! Award

Empowering pupils to become inventors themselves

With the organisation of a European contest under the headline “World of the future: the best FCH application”, FCHgo will mobilize pupils to develop an innovative project, demonstrating the potential of renewable energy and FCH technology in a creative way.

The first edition of the award will be launched in spring 2020 with future annual editions to follow.

Who can participate?

The competition will be open for teams of pupils aged 8 to 18 from all over Europe. Industry stakeholders may support the contest by providing advice to competing pupils and/or sponsoring the award ceremonies.

Why participate?

The best learning method is to make and create things together.

The FCHgo award will be a unique opportunity for pupils to create, test and implement their own ideas with the help of teachers and industry experts.

You would like to participate in or support the FCHgo award? Find out more under www.fchgo.eu/fchgo-award



Get involved in FCHgo!

Benefit from the resources provided by the project

Teachers & Schools

- Participate in the FCHgo teachers training and classroom activities
- Make use of the project’s ready-to-teach materials for drafting and delivering your own lessons about fuel cells and hydrogen
- Encourage and prepare your pupils to compete in the FCHgo award

Industry Stakeholders

- Provide your expertise for the development and implementation of the FCHgo toolkit
- Help to train tomorrow’s scientists and engineers by presenting your work during the FCHgo classroom activities
- Mentor pupils’ teams competing in the FCHgo award and/or sponsor the award ceremonies

Pupils

- Discover renewable energy, fuel cells and hydrogen technology through the FCHgo website
- Compete in the FCHgo award and
- Share your ideas for a fossil-free future making use of H₂ energy

More information about the opportunities to engage in FCHgo under www.fchgo.eu

