H2 Forum
Digital Edition

April 27-28, 2021
Virtual Conference

EVENT SUMMARY

GREEN HYDROGEN 2025 – FUELING EUROPE'S INDUSTRY AND MOBILITY

3,470 Attendees	**43** Partners and sponsors	**48** Speakers

See you next year! **April 4-5, 2022**

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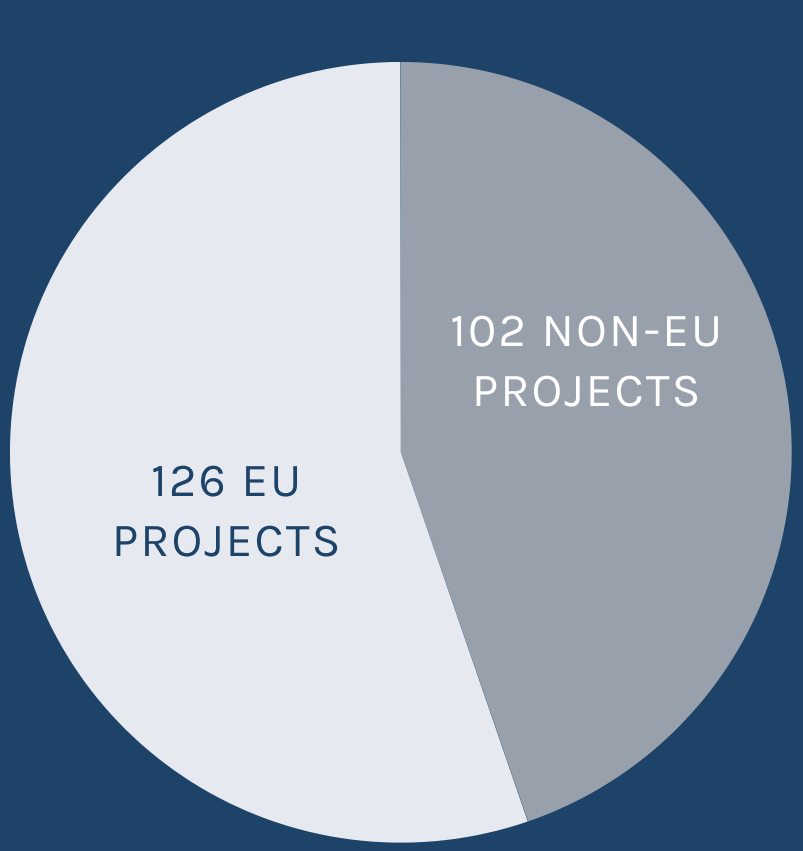
Europe is leading: 126 of 228 global hydrogen projects are planned in Europe



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In the medium term, green hydrogen will be produced mainly in countries with infinite renewable energies and will be traded globally – similar to oil and gas, today.

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For building and industrial heating, blending natural gas with green hydrogen is a quick win to reduce CO2 emissions using existing infrastructures.

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39,700 km of hydrogen backbone are potentially emerging in Europe by 2040.

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In the next years, green hydrogen demand will be bigger than the available supply. Competition based H2 pricing for limited green hydrogen will be achieved by an auction model.

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H2 business cases are running already: hydrogen trucks in Switzerland already compete at lower costs than diesel trucks.

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In city busses, hydrogen transformation is happening already today. In 2025, only 27% of all EU busses will drive with traditional diesel technologies. H2 will have a share of 7-10 percent.

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Rail, plane, automotive, busses, and trucks will most likely use the same hydrogen tank infrastructure, in some years time.

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Fuel cells and hydrogen combustion will most likely find their separate market niches.

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In the short term, e-fuels are a game changer for existing assets in mobility. Planes, sports cars and trucks will be CO2-neutral soon if fueled with CO2-neutrally produced e-fuels.

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550 mio. liters of CO2-neutral e-fuels can be produced in only one plant, in 2026. The challenge is to make the required renewable energy available in the right form at the right location.

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CO2 air capture technologies will be used in the hydrogen value chain to transform H2 chemically.

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Gas hydrogen seems to be easier to use and superior to liquid hydrogen in many applications.

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Offshore wind will be the major source to replace fossil energy and to produce green hydrogen in Europe.

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Large scale, modular designed and standardized electrolyzer plants with gigawatt capacity will be available from 2025+.

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Traditional grey hydrogen hubs at raffineries can easiliy serve as storage for large volumes of green hydrogen and can be distributed from there.

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The combination of three key technologies for one value chain bears enormous potential: a) using green electricity for water electrolysis processes, b) using the resulting ...

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... green hydrogen for chemical plants, and c) using green molecules for further processes and as sustainable energy carriers (ammonia, methanol, methane).