



INTERNATIONAL PARTNERSHIP FOR HYDROGEN AND FUEL CELLS IN THE ECONOMY

IPHE Press Release

IPHE Joins in Celebrating “Hydrogen and Fuel Cell Day” October 8

Brussels, October 8, 2017 – Today is “Hydrogen and Fuel Cell Day,” a time to highlight the deployment of fuel cell and hydrogen (FCH) technologies. Introduced in the United States for the atomic weight of hydrogen – 1.008 – the lightest and most abundant element in the universe, this reflects the date written 10-08 in North America. The International Partnership for Hydrogen and Fuel Cells in the Economy (IPHE), a partnership of eighteen countries and the European Commission, joins in this celebration. There will be hundreds of outreach events, announcements, and press releases expected from around the globe.

Sustained global research, development, and demonstrations by industry and government have led to technology maturity and early market deployment in Asia, North America, and Europe. Fuel cell electric vehicles and buses are now being deployed world-wide. In 2016, over 62,000 commercial fuel cells were shipped worldwide, 500 MW across all applications, with total revenues of \$1.6B. There are now over 200,000 combined heat and power units installed. And while we often look to on-road vehicles as a sign of making significant cost reductions and technical gains, there are thousands of warehouse materials handling units, back-up power systems, and portable power devices operating today that use FCH technologies. Also, 2017 saw the formation of the Hydrogen Council with 15 global companies committing to invest more than \$10B over the next 5 years in FCH technologies, and more leading companies are joining this effort.

FCH technologies offer a way to enable clean energy systems, to enhance energy security, to address local environmental goals, and to contribute to economic growth. Hydrogen and electricity are two complementary and viable energy carriers available now that can help effectively decarbonize our energy and transportation systems. FCH technologies can use a wide variety of low carbon energy sources, from intermittent renewable electricity generation to biomass to chemical waste streams, store and then provide energy when needed, and in so doing can substantially reduce greenhouse gas emissions and other air contaminants. Increasingly, FCH technologies are seen as being able to help integrate clean energy, transportation, industrial processes, and the built environment – often referred to as ‘Hydrogen-at-Scale’ or ‘Sector Coupling’ – with the goal of sustainable economic growth.

The world has used hydrogen for decades in food products, chemical processes, semiconductor fabrication, and refined oil products. As hydrogen capacity builds and competitive fuel cell systems continue to develop for portable, stationary power and transportation markets, FCH systems can complement and gradually replace unabated fossil-fuelled systems.

– 30 –

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