



**Project Acronym :** HYSAFE

**Project Title :** Safety of Hydrogen as an Energy Carrier

**Coordinator :** Forschungszentrum Karlsruhe - Project Management Agency for Production and Manufacturing Technologies – Institute for Nuclear and Energy Technologies (Germany)

**Website :** [www.hysafe.org](http://www.hysafe.org)

## ABSTRACT

The EC funded Network of Excellence HySafe contributes to the safe transition to a more sustainable development in Europe by facilitating the safe introduction of hydrogen technologies and applications. HySafe is one of the first IPHE (International Partnership for the Hydrogen Economy) recognized projects and currently the only one dedicated to safety aspects.

The HySafe network will bring together competencies and experience from various research and industrial fields (automotive, gas and oil, chemical and nuclear). Much effort has been concentrated on the hydrogen safety issues relevant to the nuclear industry during the past 20 years, including comprehensive safety studies and the development of innovative mitigation techniques. At the same time industry and research dealing with today's fossil energy carriers are now confronting issues associated with everyday use of the technology by the general public.

Synthesis, integration, and harmonisation of these efforts are expected to break new ground in the field of hydrogen safety and contribute to the increase of public acceptability of hydrogen as an energy carrier. The Advisory Council includes a balanced representation of partners, distinguished scientists outside the network, and representatives from industry and authorities.

As a prolongation of the project the IA HySafe (International Association for Hydrogen Safety) was created in February 2009 aiming to facilitate the international coordination, development and dissemination of hydrogen safety knowledge by being the focal point for hydrogen safety research, education and training.

The IA HySafe is composed by 21 international organizations and conducts the International Conference on Hydrogen Safety, whose 3rd edition will take place in Corsica on September 16-18, 2009 (ICHS 2009) on behalf of the European Commission and the International Partnership for the Hydrogen Economy (IPHE). The conference will focus on the improvement, knowledge, and understanding of hydrogen safety to foster removal of safety-related barriers to implementation of hydrogen as an energy carrier and is being organized in collaboration with the principal EU and international projects on hydrogen safety.

<http://conference.ing.unipi.it/ichs2009/>

## PARTNERS

Forschungszentrum Karlsruhe GmbH – Project Management Agency For Production And Manufacturing Technologies (Fzk/Pft) – Institute For Nuclear And Energy Technologies (Fzk/Iket) – **Germany**; Danmarks Tekniske Universitet – **Denmark**; Norsk Hydro ASA – **Norway**; CEA - Commissariat à l'Énergie Atomique – **France**; Forschungszentrum Juelich GmbH – **Germany**; Institut National de l'Environnement Industriel et des Risques – **France**; National Center for Scientific Research "Demokritos" – **Greece**; Commission of the European Communities - Directorate General Joint Research Centre – **Belgium**; Volvo Technology AB – **Sweden**; University of Ulster - **United Kingdom**; Università degli Studi di Pisa – **Italy**; Universidad Politécnica de Madrid – **Spain**; Politechnika Warszawska – **Poland**; Instituto Superior Técnico – **Portugal**; TNO - Netherlands Organisation for Applied Scientific Research – **Netherlands**; Health & Safety Executive - **United Kingdom**; Fraunhofer-Gesellschaft zur Foerderung der Angewandten Forschung E.V. – **Germany**; Det Norske Veritas AS – **Norway**; BMW Forschung und Technik GmbH – **Germany**; Russian Research Centre "Kurchatov Institute" – **Russian Federation**.