



Hydrogen Europe: European Hydrogen & Fuel cell Project Database

Project H2SENSE

Cost-effective and reliable hydrogen sensors for facilitating the safe use of hydrogen

This project is related to the effective deployment and availability of reliable hydrogen sensors, primarily but not exclusively for use in applications using hydrogen as an alternative fuel. The objective is to support and unite stakeholders including sensor manufactures/developers, sensor end-users, certification bodies and independent sensor evaluators having the aim to avoid any hazardous events which could hinder the implementation of hydrogen as an alternative fuel by ensuring the availability and optimum use of low-cost and reliable hydrogen sensors. In doing so a European knowledge hub covering hydrogen sensing technologies, state of the art commercial products, near term applications and correct use of hydrogen sensors will be created. An output from this virtual knowledge hub will be state-of-the-art guidelines on how to select and properly use the best hydrogen sensor for a particular application. In addition the consortium will identify barriers (including those of a market, technical, manufacture-related and regulatory nature) which may hinder the commercialisation and wide spread of hydrogen sensors. Suggestions to overcome these barriers will be formulated in addition to recommendations for integration into ongoing or new RCS activities to be implemented at national and global levels. With the knowledge of these barriers it is expected that sensor manufacturers will be better equipped to design, manufacture and commercialise improved sensors at a lower cost, which are tailored to suit end-user requirements. As a result end-users will benefit from a broader range of effective products to choose from for specific applications. A novel aspect of this project will be co-ordination and joint activities with a US consortium lead by the US Department of Energy (National Renewable Energy Laboratory and Los Alamos National Laboratory) whereby the output will be leveraged by the interaction and knowledge transfer between the European and US consortia.

Project Information

Type of project : Others

Timing : 01/06/2013 > 31/08/2014

Project website: <http://www.h2sense.bam.de/en/home/index.htm>

Project Budget : 785.290 €

Funding

European Union through FCH JU: **Grant agreement 325326 - CORDIS link**

Project partners

Coordinator :

BUNDESANSTALT FUER MATERIALFORSCHUNG UND -PRUEFUNG

Partners :[ZSW - Zentrum für Sonnenenergie- und Wasserstoffforschung Baden-Württemberg](#)

JRC - JOINT RESEARCH CENTRE - EUROPEAN COMMISSION

AMSENSOR SOLUTIONS GERMANY GMBH

SENSITRON SRL

UST UMWELTSENSORTECHNIK GMBH

Sub project(s)**Sub project 1****Country:** Germany**Address:**

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Sub project categories

Others

Project Id: 981

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