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H₂FC

Integrating European Infrastructure to support science and development of Hydrogen- and Fuel Cell Technologies towards European Strategy for Sustainable, Competitive and Secure Energy

Deliverable

D2.9 3rd Call of H₂FC (unspecific)

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1 Introduction

The present paper is a documentation of specific activities and implementations that have been undertaken by the H₂FC consortium in order to prepare the first call for proposals and to raise awareness of H₂FC offer to external users from Europe. As such it is not the deliverable. The 3rd call as such is the deliverable.

The third call for proposals was announced in May 2013 on the H₂FC website. Each applicant can fill out a PDF based application form, downloaded from the webpage and submit it via web. This paper does not report any technical measure taken to establish and adapt the used business processes, such as the system entry point (i.e. the website), description of the technical capabilities, proposal submission system, user office etc.

2 Launch of 3rd Call

The 3rd call was announced on the start page of the external website of H₂FC. The third call was indicated as an unspecific call with access to all installations of the projects regarding:

- Fuel cells
- Hydrogen production and storage
- Safety issues

The screenshot shows the H₂FC website home page. The main content area features the title "H₂FC European Infrastructure Project" and a description: "Integrating European Infrastructure to support science and development of Hydrogen- and Fuel Cell Technologies towards European Strategy for Sustainable Competitive and Secure Energy". Below this is a carousel of images, with the current slide showing a laboratory setup labeled "HyMat - Hydrogen Assisted Stress cracking testing configuration based on SSRT". A large orange banner reads "Third call is now open!". To the right of the banner is a "Proposal Submission" button with an "Apply here" link. Below the banner, text states: "Take your chance for free access to more than 50 installations regarding:" followed by a list: "fuel cells", "hydrogen production and storage", and "safety issues". Further text explains: "Hydrogen as an energy carrier will play a major role in the near future, but still research has to be done to reach public acceptance and promote further development. This H₂FC European Infrastructure wants to enable applicants ...". A second list follows: "to reach their research goal", "by supporting their necessary research work", "by providing the required infrastructure", and "without any costs!". A final note says: "The H₂FC European Infrastructure Project is free of charge and access could usually be granted within few days. Be sure to apply." The left sidebar contains navigation menus for "About H₂FC", "User Access", "Activities", "Login", and "H₂FC News". The right sidebar includes "Main Contact" information for Diet Jedicke, a "Rome 2013 conference" banner, "Visit our Technical School!" banner, and "Researchers Exchange" banner.

Figure 1: Screenshot of Third Call information on the home page of H₂FC

Detailed information regarding the steps for submitting a proposal was given on an additional page, called "Proposal Submission" was arranged same than to the first call and second call. No changes appeared. Promotion of 3rd Call

Different information activities have been started to promote this offer to experts in the field of Hydrogen- and Fuel Cells Technologies.

Each partner uses their individual Email lists to send out information about the opening of the first call. Additionally the leaflet arranged to the first call was designed for promotion purposes:

SINTEF Norway
 Stationary and Fuel Cells for Power and Heat Generation
 Hydrogen Production & Distribution
<http://www.sintef.no/>

EMPA Switzerland
 Hydrogen Production & Distribution
<http://www.empa.ch/>

University of ULSTER UK
 Hydrogen and Fuel Cell Safety
www.ulster.ac.uk

ENEA Italian National agency for new technologies, energy and sustainable economic development
 Thermochemical Hydrogen Production Hydrogen Storage
 PEMFC, MCFC, SOFC
www.enea.it

University of Pisa Italy
 Hydrogen Piles
www.unipi.it

Pro-Science Germany
 Hydrogen Safety Issues
www.pro-science.de

VTT Technician Center of Finland
 Stationary and Fuel Cells for Power and Heat Generation
www.vtt.fi

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H₂FC European Infrastructure Project
 Integrating European Infrastructure to support science and development of Hydrogen- and Fuel Cell Technologies towards European Strategy for Sustainable, Competitive and Secure Energy

Are you interested in developing a project research in one of H₂FC installations?
 Submit your proposal through www.h2fc.eu
 where you can find also a more detailed description of available H₂FC installations

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"Integrating European Infrastructure to support science and development of Hydrogen- and Fuel Cell Technologies towards European Strategy for Sustainable, Competitive and Secure Energy" acronym H₂FC European Infrastructure, is a European Infrastructure Project funded by the European Commission within FP7-INFRASTRUCTURES-2011-1.

It addresses the topic of INFRA-2011-1.1.16 "Research Infrastructures for H₂FC Facilities" and related energy-chains by combining Europe's leading R&D institutions of the hydrogen community together with those of the fuel cell community, covering the entire life-cycle of H₂FC, i.e. hydrogen production, storage, distribution and final use by fuel cells in a safe manner.

The project is coordinated by Karlsruhe Institute of Technology (KIT) lasts 48 months - starting from the 1st November 2011 - and consists of 19 partners, collected from European's research centers, universities and industry.

With a total cost of € 10.217.426,60, H₂FC is organized in 25 Work Packages, fully interrelated, devoted to networking, transnational access and joint research activities and oriented towards the resolution of identified bottlenecks.

Main aim of the project is to integrate, for the first time in Europe, the European Hydrogen and Fuel Cells R&D community around rare and/or unique infrastructural elements.

The greatest support to European's hydrogen and fuel cell community will be given through the transnational access activities of the project, while opening several different technical and experimental installations to external users.

The user access will be announced by continuous calls through the H₂FC website.

KIT Karlsruhe Institut fuer Technologie Germany
 Hydrogen Storage Materials Hydrogen Safety Issues SOFC Tests
<http://www.kit.edu/>

CEA Commissariat à l'énergie atomique et aux énergies alternatives France
 Stationary and Fuel Cells for Power and Heat Generation
 Hydrogen Production & Distribution Hydrogen Storage in Hydrogen
 Hydrogen embrittlement under hydrogen gas pressure
<http://www.cea.fr>

IFE Institute for Energy Technology Norway
 Materials characterization
<http://www.ife.no/>

HSE Health and Safety Executive UK
 Transportation and Refueling Infrastructure
<http://www.hse.gov.uk/>

JRC European Commission DG-JRC, Institute for Energy and Transport The Netherlands
 Transportation and Refueling Infrastructure Cross-cutting issues
 Stationary and Fuel Cells for Power and Heat Generation
<http://ec.europa.eu/energy/jrc/index.cfm>

JÜLICH Germany
 Fuel Cells for stationary power and heat generation
<http://www.fz-juelich.de/>

FHO FHO Schweizerischer Forschungsinstitut für Wasserstoff Switzerland
 Stationary and Fuel Cells for Power and Heat Generation
<http://www.fho.ch/>

National Centre for Scientific Research "Demokritos" Greece
 Hydrogen Storage
<http://www.demokritos.gr/>

Università degli Studi di Perugia Italy
 Stationary and Fuel Cells for Power and Heat Generation
 Material characterization by means of x-ray, neutron, light
www.unipg.it

BAM Federal Institute for Research in Materials Science and Engineering Germany
 Sensors Materials Safety Issues
www.bam.de

tecnalia Spain
 Cross-cutting issues Materials Behavior
www.tecnalia.com

NPL National Physical Laboratory UK
 PEMFC in situ measurement and modeling
 Electrochemical characterisation of fuel cell catalysts
 Measurement of hydrogen purity
<http://www.npl.co.uk/>

Figure 2: Leaflet for promotion of first and second and third call

In addition, the promotion to this call was done by presentations (oral, poster, flyers, etc.) to several conferences (see list of disseminations) done by KIT and University Perugia and partly also by some other partners.