Grant agreement no.: FP7-284522

H_2FC

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

Instrument: Integrating Activity

FP7-INFRASTRUCTURES-2011-1

Deliverable

D2.21 Running System Entry Point Webportal

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1 H_2FC Web Portal

1.1 Introduction

This paper documents the launch of the H_2FC web site and briefly presents the structure and capabilities of the site as a virtual entrance to the infrastructure and consortium.

Please note: This report is not intended to be the deliverable. The web site itself is the deliverable.

The H_2FC web site was launched in a first version in the second week of the project. Since then it has been improved and upgraded steadily. The following report refers to the version that was online by September 30st, 2012.

The web page consists of two different pages:

1. The project's **public internet site** which contains publicly available information about H_2FC.
2. The project's **internal collaboration site** which serves as an internal communication platform for the partners.

Both the public and the internal web site are maintained by the partner KIT.

1.2 Public Web Site

1.2.1 Structure of the public pages

The public pages have been designed to be the prime source of information about the project for interested persons and to attract potential stakeholders to H_2FCs offers. The public web site uses a free and open source content management system named "Joomla" to enable the maintainers of the public web site to extend it easily for every specific feature the project might need, e.g. the mailing list for persons interested in the project.

Fig. 1 shows the public home page of H_2FC (www.h2fc.eu).

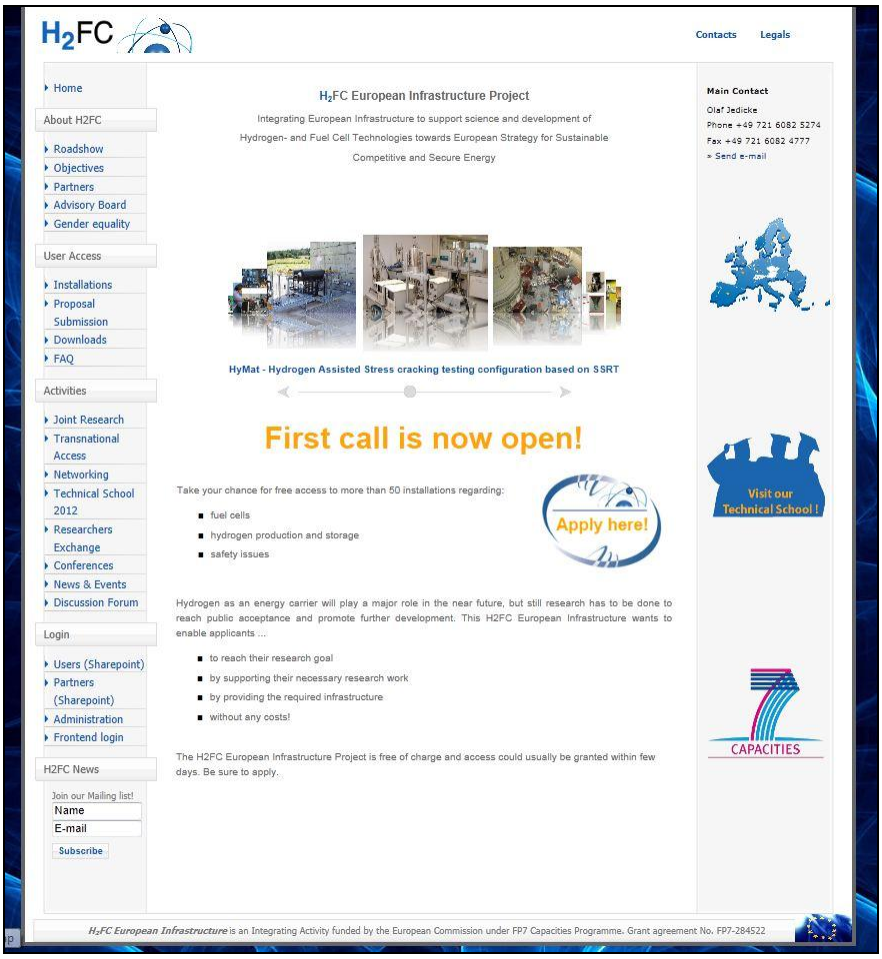


Fig. 1 Home page of H_2FC, public address is www.h2fc.eu

Contact information of the H_2FC Main Contact is present on every page for fast access. The following subpages of the web site exist:

- **Home:** The home page is shown in the screenshot above. On this page you find graphical illustrated information about the installations, announcements regarding calls etc. and links to different topics like the Technical School.

About H2FC

- **Roadshow:** The "Roadshow" page shows a short powerpoint based presentation about the project installations and objectives.
- **Objectives:** The "Objectives" page gives detailed information about the general aims of the project. It focuses on the idea of transnational access to the research and testing infrastructures and the position of H_2FC in relation to other regional, national, European and global projects. It comprises an introductory text about the future vision of hydrogen usage in mobile and stationary applications, a brief description of the reasons why H_2FC was founded and the aims of the project.
- **Partners:** The "Partners" page is a single list consisting of the logo and a short description of every partner institution or association that contributes to the H_2FC project.

- **Advisory Board:** This page lists all members of the Scientific Advisory Board together with their respective organization.
- **Gender Equality:** The "Gender equality" page provides more information on what measurements are taken to promote the role of women in this project and this scientific area.

User Access

- **Installations:** This page lists all installations that are accessible to users through the H_2FC project, together with the providing organisation's short name and country.
- **Proposal Submission:** The page comprises details about the call for proposals and some basic information on how the proposals, once handed in, will be processed in the project.
- **Downloads:** The "Downloads" page include all necessary downloads that are important for the potential users or interested people.
- **FAQ:** This page presents a list of subsequent steps to follow for submitting a proposal from users. Additionally, this page will be updated with information to avoid problems and misunderstandings.

Activities

- **Joint Research:** The "Joint Research" page consists of detailed information about each Joint Research Activity, describing all the tasks which are the goals of the respective activity.
- **Transnational Access:** This page lists all goals that have been set for the H_2FC project to ensure transnational access to the provided research and testing infrastructure of the partners.
- **Networking:** The basic separation between the five Networking Activities of H_2FC is explained by this page. Additionally, the specific tasks to fulfil the aim of each Networking activities are explained here. Networking activities range from N1 - Entry Point to N5 – Long Term Perspectives of H_2FC
- **Technical School:** This page consist all necessary information regarding a participation on one of the offered Technical Schools from H_2FC.
- **Researchers Exchange:** This page describes the procedure regarding the Researchers Exchange Programme.
- **Conferences:** This page list all relevant conferences in this field.
- **News & Events:** This page shows all relevant upcoming events and news.
- **Discussion forum:** On this page external visitors can ask questions regarding hydrogen and fuel cells to the expert team.

Login

- **Users (SharePoint):** This is a link to the H_2FC project user area for users to login.
- **Partners (SharePoint):** This is a link to the H_2FC internal collaboration site for members to login.
- **Administration:** This is a link to the administration panel of the public web site to create new newsletter issues to the H_2FC mailing list or to maintain the content of the public site.
- **Frontend login:** This is a link to the content panel of the public web site to create new content of the public site or edit the discussion forum.

1.2.2 Details of the content of the public web site

The public web pages contain specific information on the following aspects of H_2FCs offers and the consortium:

- Technical Information:
    - Technologies: There is a technology description available for each of H_2FCs installations, giving specific details and specifications as well as details of respective experts that are available to user requests.
    - Proposal Submission: The application form is the sole way of applying to use H_2FCs facilities. It might be completed online or downloaded and sent by e-mail or via web-submit to the user office.
    - Conditions of Access: The user guidelines can be downloaded from the download section of the website.
- Administrative Information:
    - Host details of the partner organisations
    - Project mission statement and news items
    - Gender equality which gives an overview of the gender actions in H_2FC
    - A list of dissemination activities is given
    - Information on the user office and contact details

1.3 Internal Collaboration Site

The project's internal collaboration site has been designed to provide a simple communication platform for the partners, with the aim of facilitating all the project internal processes (see Fig. 2). To accomplish this, it utilizes the Microsoft SharePoint software. The functionality of SharePoint allows for uploading, editing, downloading of documents, the creation of meetings and more.

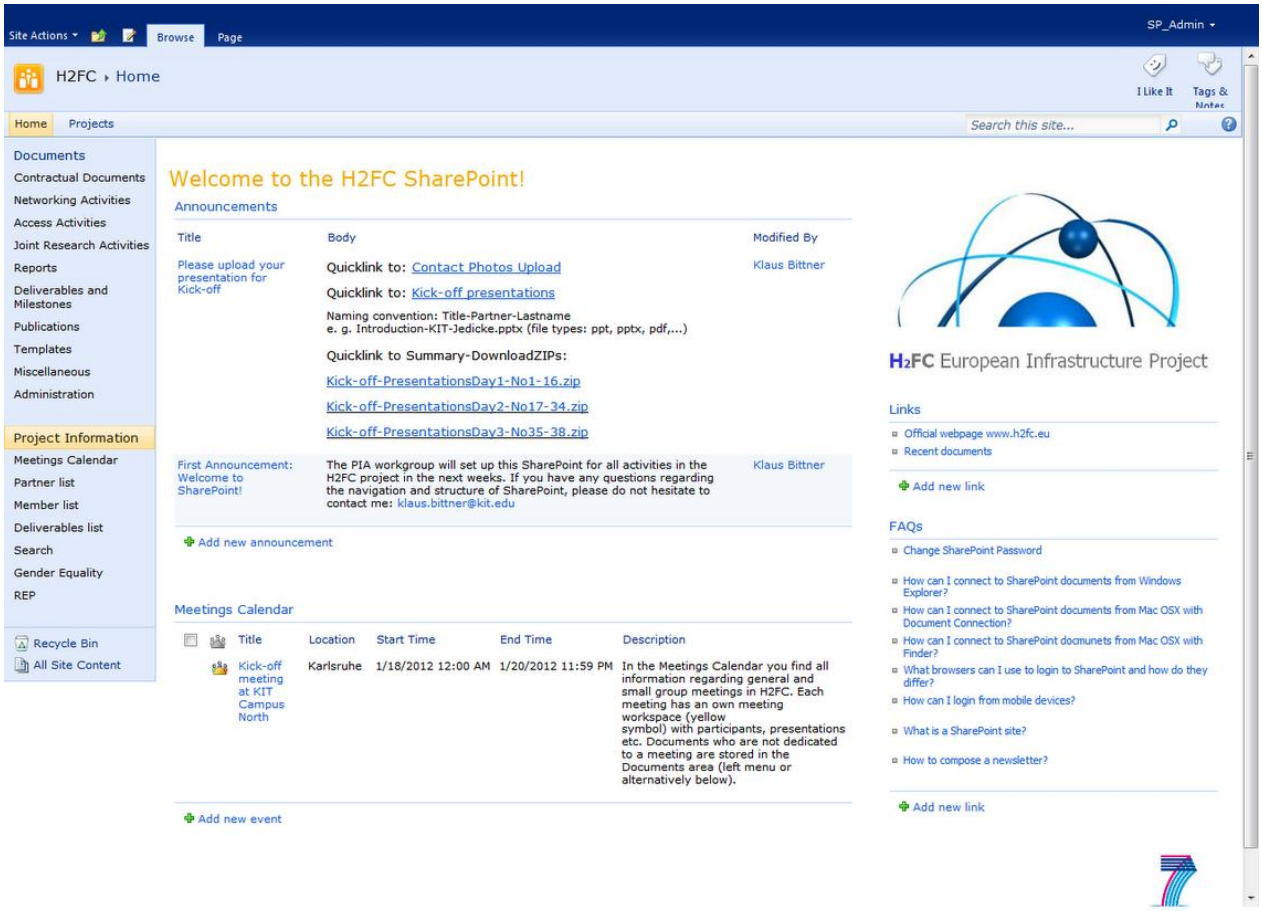


Fig. 2 Screenshot of H_2FC's internal collaboration site

To access the H_2FC SharePoint web site, the partners need a username and password.

Additionally, custom modifications to the SharePoint (implemented by the IAI PIA group at KIT) allow users to track their proposals after submission at any stage of the review process as well as during the planning of its execution and allow an online evaluation of the user proposals for the responsible entities.

Other areas of the H_2FC SharePoint than this are protected and can't be viewed by H_2FC users - only H_2FC partners have access to these areas.

The SharePoint home page shows for example the internal project announcements and the Meetings Calendar where all intranet visitors can see past and upcoming meetings at a glance. Additionally, there's a list with interesting links at the right, together with links to FAQ pages of this SharePoint's InfoWiki that describe various actions concerning the usage of the SharePoint, including tutorials on how to connect to SharePoint documents and lists on Windows, Mac and mobile devices. It also provides access to much other internal information which is divided into the following sections:

Documents

This is the main shared repository for documents. Folders can be created, files uploaded as new or amended documents. Top-level folders that are accessible via the Quick Launch column comprise:

- **Contractual Documents**
- **Networking Activities**
- **Access Activities**
- **Joint Research Activities**
- **Reports**
- **Deliverables and Milestones**
- **Publications**
- **Templates**
- **Miscellaneous**
- **Administration**

With these subdivisions of documents, one can easily find the right place for new documents or get up-to-date with the progress of the documents in a specific area of the H_2FC project.

Project Information

- **Meetings Calendar:** This calendar shows past and upcoming meetings with date, start and end time and location. Each major meeting has its own Meeting Workspace, with the necessary structure to hold all the information needed for the meeting organisation and to publish all the materials resulting from the meeting.
- **Partner list:** This list consists of all partner organisations of H_2FC and their contact data as well as a link to their home pages.
- **Member list:** This page lists all active participants with their name, email addresses, telephone numbers and role in the project. This list, like every other SharePoint list, can be sorted and filtered for any category.
- **Deliverables list:** All deliverables as found in the Description of Work are listed here, together with their respective organisation, person responsible, due date and status.
- **Search:** All members can search the entire SharePoint site for keywords here.

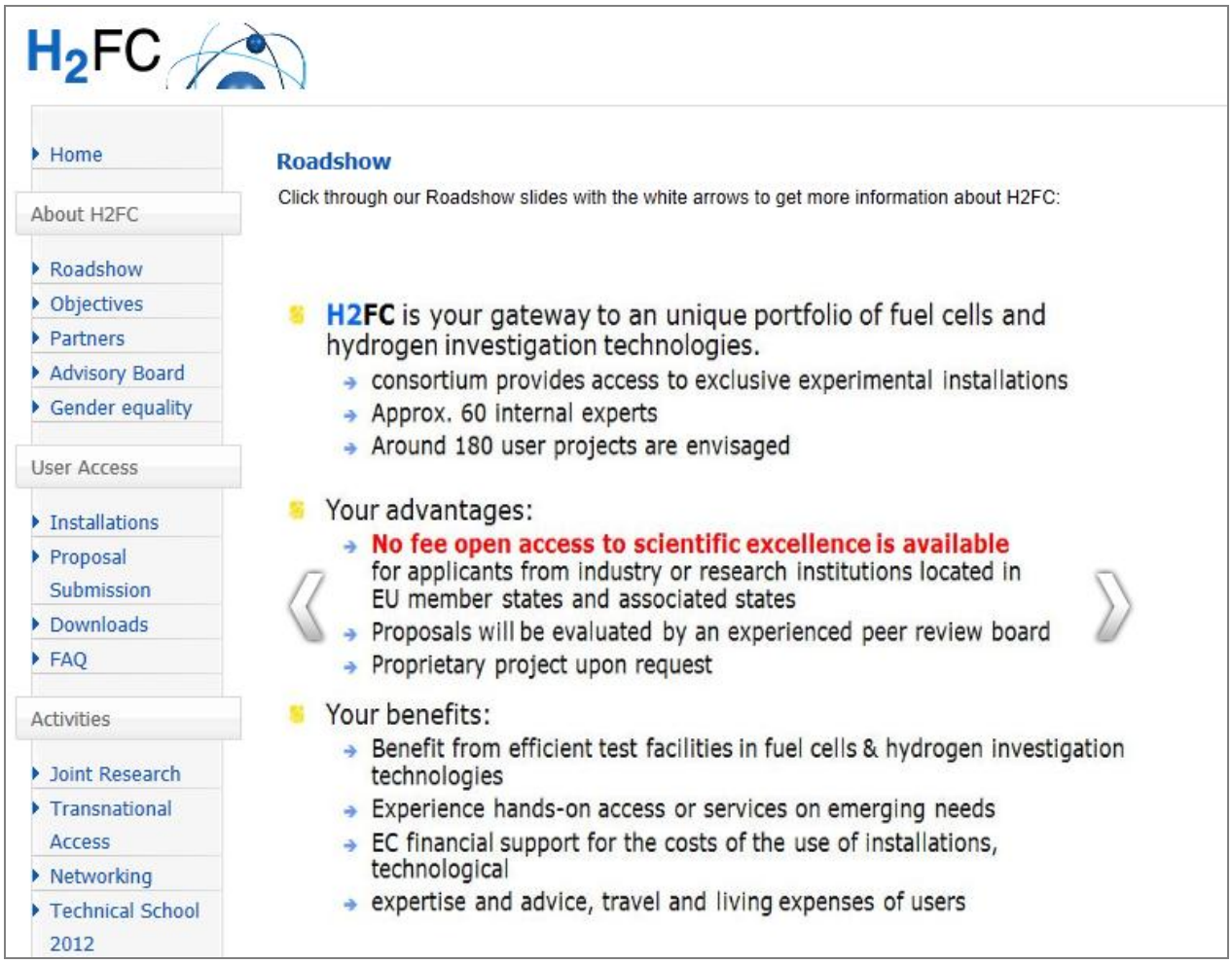
- **Gender Equality:** This link leads to a web site dedicated to the objectives of Work Package Gender Equality Awareness Activities (GEAA). It comprises a separate GEAA Event Calendar, Task & Deliverables list and a list of all GEAA contacts person per partner organisation.
- **REP: (Researchers exchange programme)** This site is intended for the management of the proposals generated under the Work Package Researchers Exchange. At the homepage, this site provides some general information about how to submit a proposal.
    - The **"REP Proposals"** list contains the definition of the proposals: Involved institutions and researchers, work to be done, dates, as well as the comments from the evaluation committee, reporting after the exchange has taken place, etc.
    - The **"REP Flowchart"** gives the participants the overview of the whole process, from the first proposal submission until the Exchange is over.
    - **"Roles"** shows the roles of the participants in the Researchers Exchange Programme.
    - **"Document Templates"** provides access to the Templates to be used for the different reports to be fulfilled after the exchange has taken place.
    - **"How to"** provides the participants support for operating the system, the actions that must be performed for each operation is described in detail.

All described pages will be improved continously to make it as easy as possible for the partners to find all necessary information on this platform.

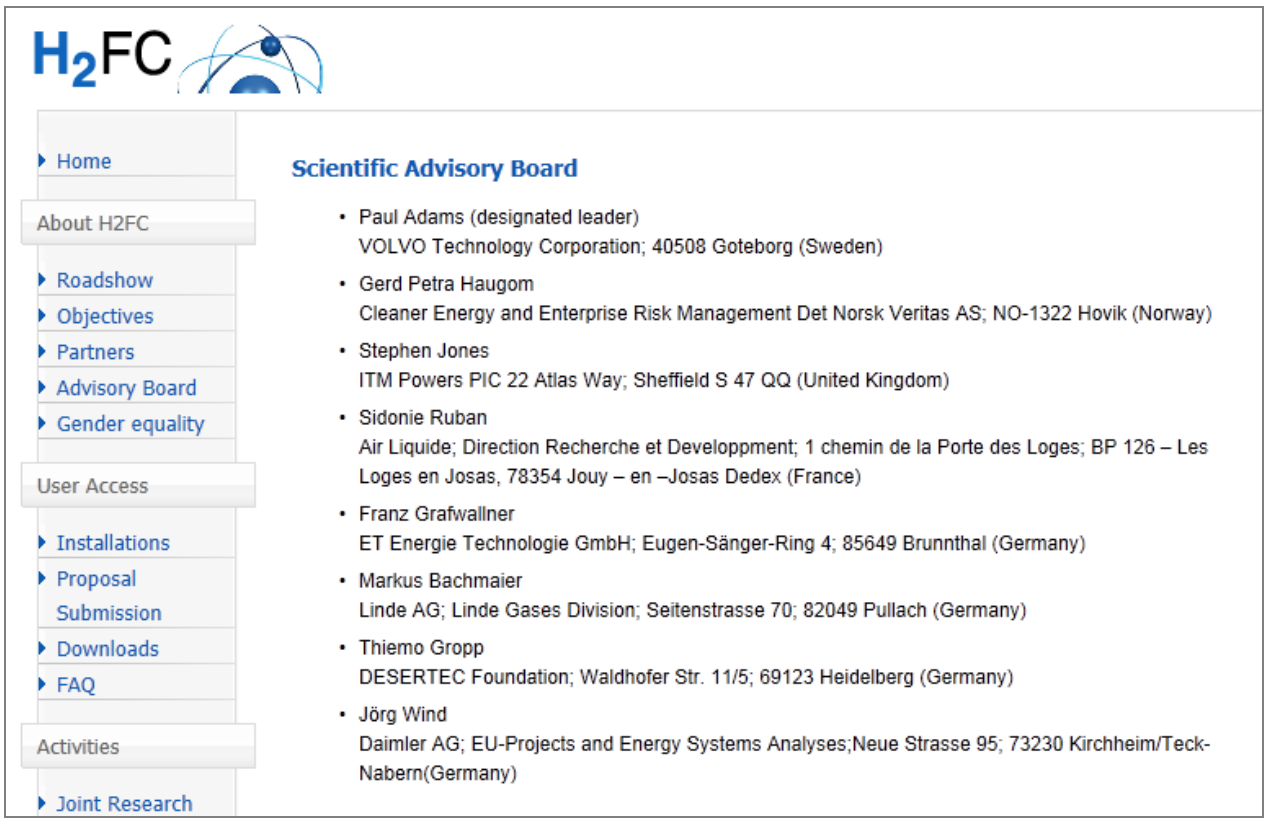
In the Appendices you will find a selection of screenshots from the public web site.

2 APPENDICES

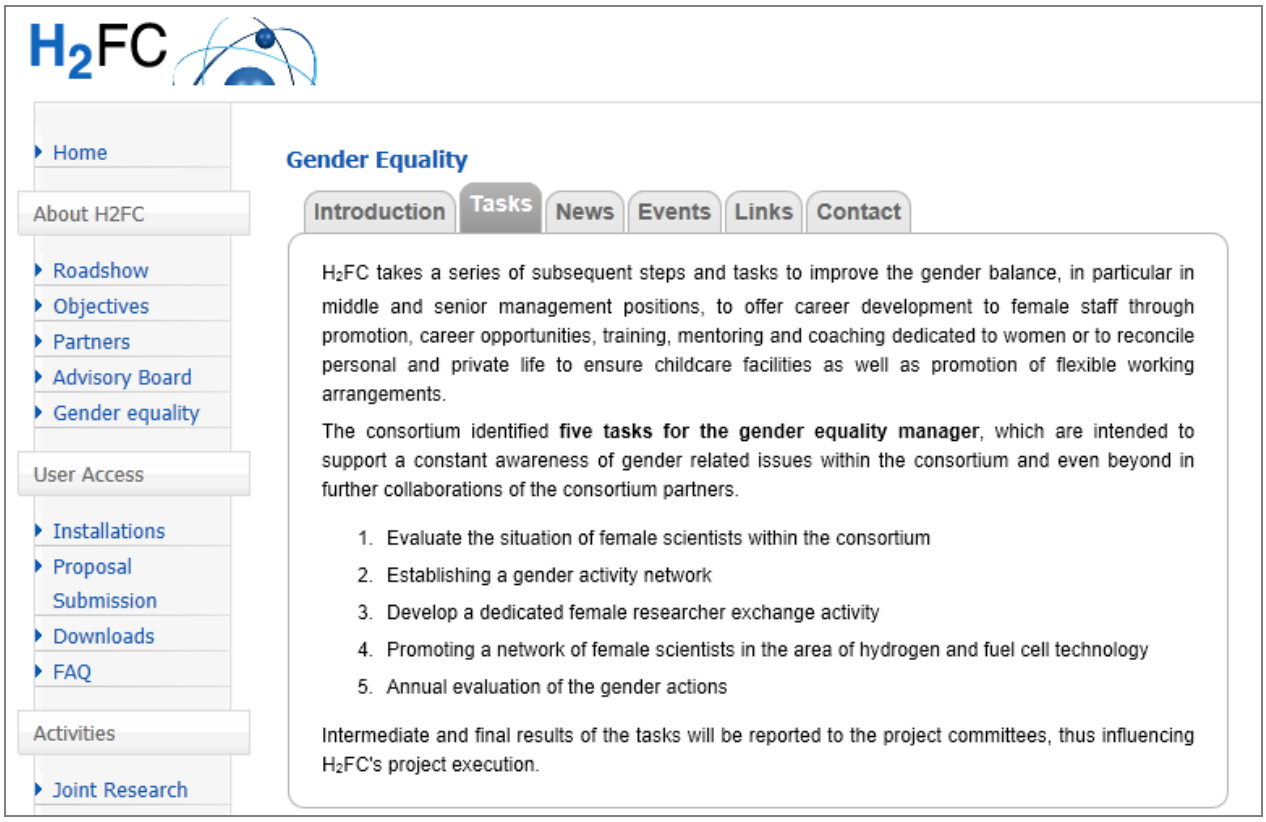
2.1 Annex 1: Roadshow page



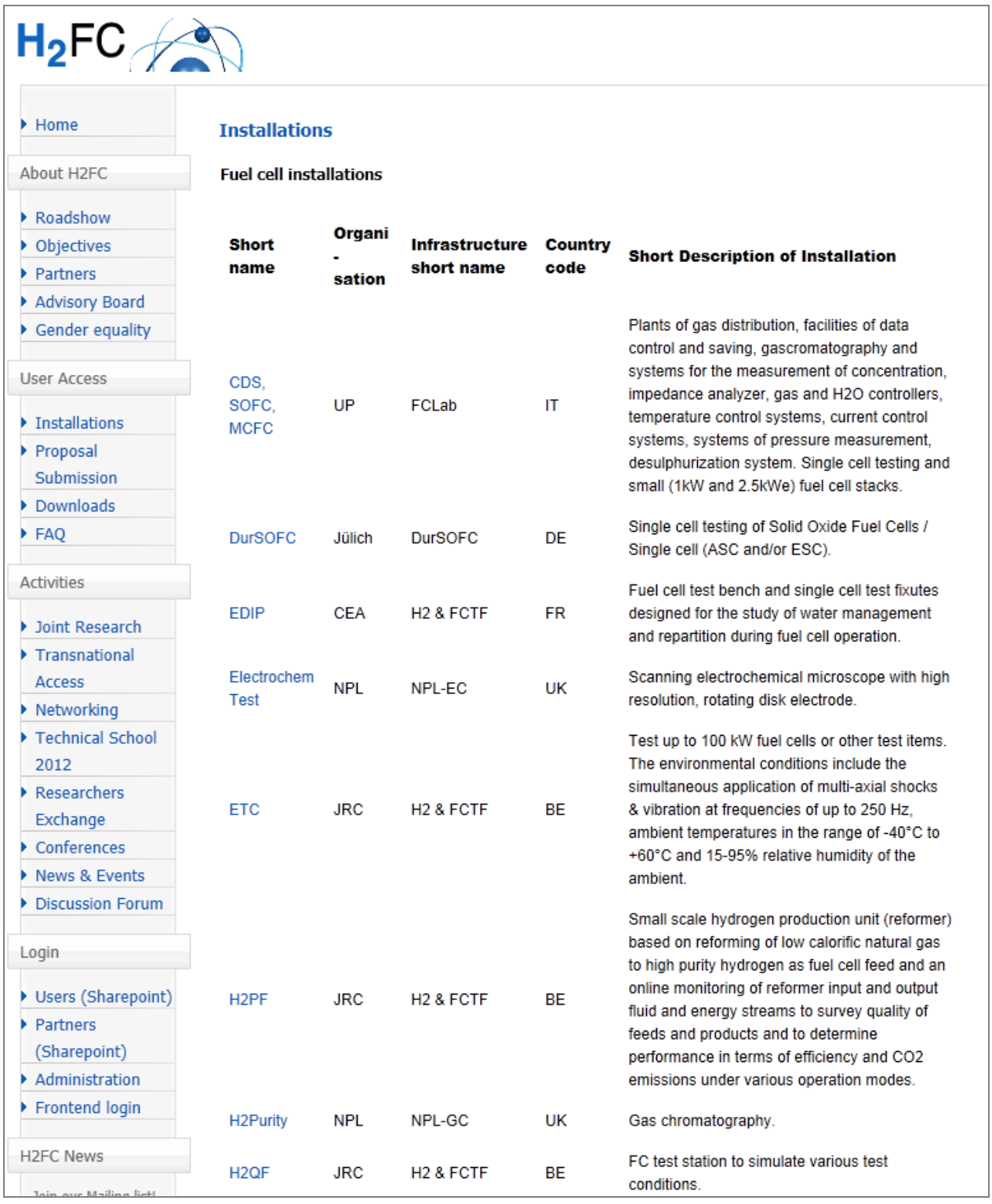
2.2 Annex 2: Advisory Board page



2.3 Annex 3: Gender equality page



2.4 Annex 4: Installations page



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H2FC News

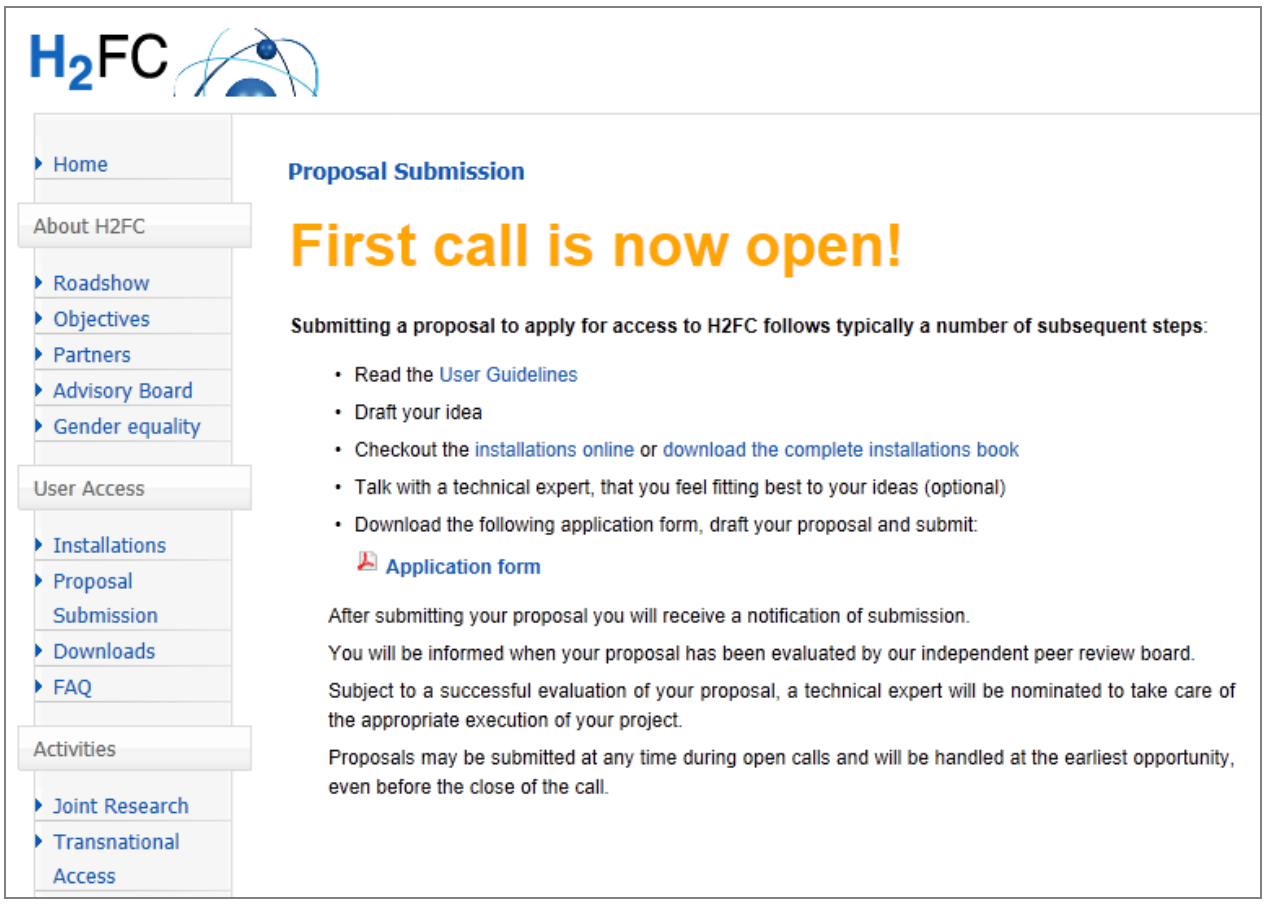
Join our Mailing list!

Installations

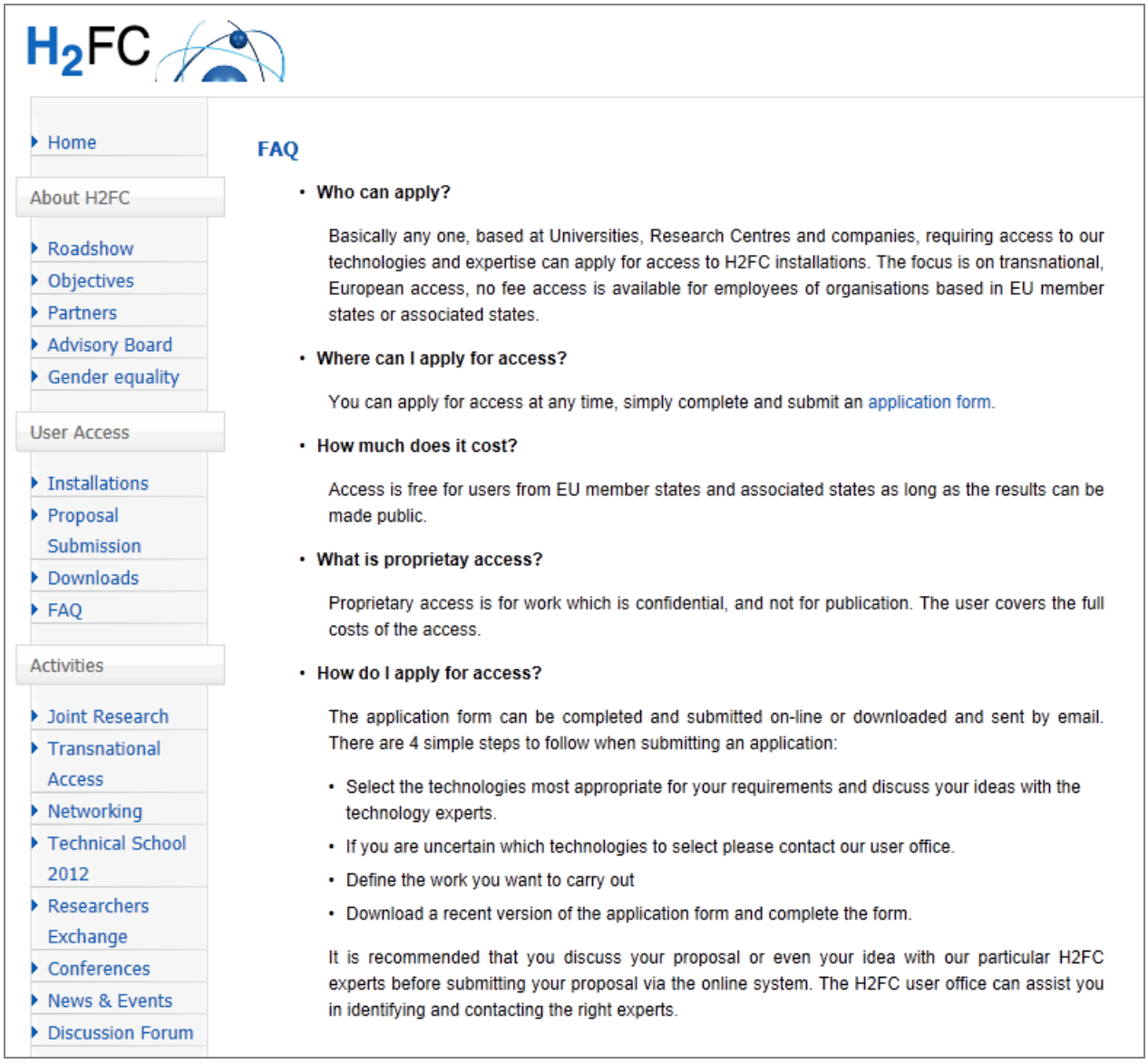
Fuel cell installations

Short name	Organi-sation	Infrastructure short name	Country code	Short Description of Installation
CDS, SOFC, MCFC	UP	FCLab	IT	Plants of gas distribution, facilities of data control and saving, gascromatography and systems for the measurement of concentration, impedance analyzer, gas and H2O controllers, temperature control systems, current control systems, systems of pressure measurement, desulphurization system. Single cell testing and small (1kW and 2.5kWe) fuel cell stacks.
DurSOFC	Jülich	DurSOFC	DE	Single cell testing of Solid Oxide Fuel Cells / Single cell (ASC and/or ESC).
EDIP	CEA	H2 & FCTF	FR	Fuel cell test bench and single cell test fixutes designed for the study of water management and repartition during fuel cell operation.
Electrochem Test	NPL	NPL-EC	UK	Scanning electrochemical microscope with high resolution, rotating disk electrode.
ETC	JRC	H2 & FCTF	BE	Test up to 100 kW fuel cells or other test items. The environmental conditions include the simultaneous application of multi-axial shocks & vibration at frequencies of up to 250 Hz, ambient temperatures in the range of -40°C to +60°C and 15-95% relative humidity of the ambient.
H2PF	JRC	H2 & FCTF	BE	Small scale hydrogen production unit (reformer) based on reforming of low calorific natural gas to high purity hydrogen as fuel cell feed and an online monitoring of reformer input and output fluid and energy streams to survey quality of feeds and products and to determine performance in terms of efficiency and CO2 emissions under various operation modes.
H2Purity	NPL	NPL-GC	UK	Gas chromatography.
H2QF	JRC	H2 & FCTF	BE	FC test station to simulate various test conditions.

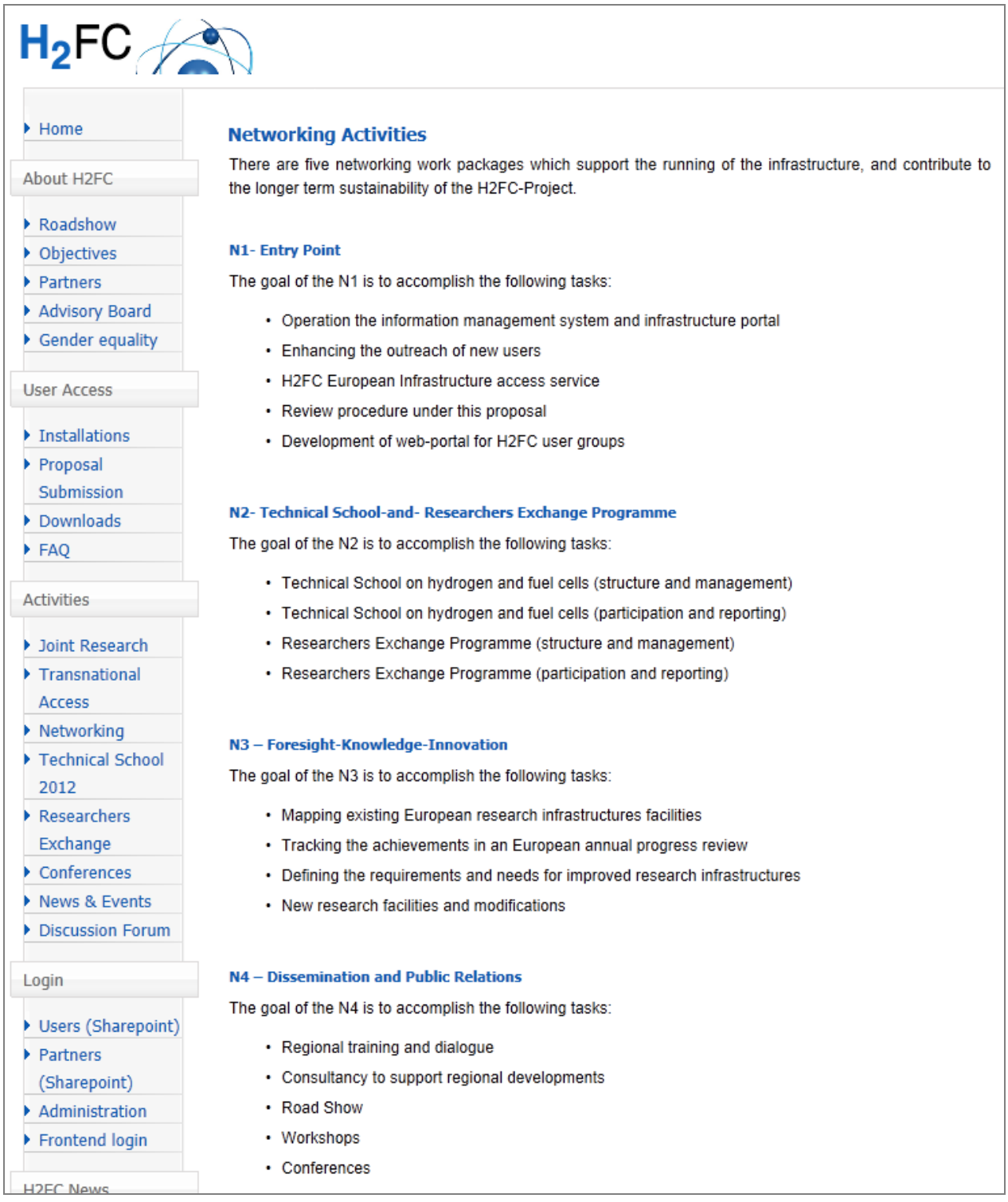
2.5 Annex 5: Proposal Submission page



Annex 6: FAQ page



2.6 Annex 7: Networking page



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Networking Activities

There are five networking work packages which support the running of the infrastructure, and contribute to the longer term sustainability of the H2FC-Project.

N1- Entry Point

The goal of the N1 is to accomplish the following tasks:

- Operation the information management system and infrastructure portal
- Enhancing the outreach of new users
- H2FC European Infrastructure access service
- Review procedure under this proposal
- Development of web-portal for H2FC user groups

N2- Technical School-and- Researchers Exchange Programme

The goal of the N2 is to accomplish the following tasks:

- Technical School on hydrogen and fuel cells (structure and management)
- Technical School on hydrogen and fuel cells (participation and reporting)
- Researchers Exchange Programme (structure and management)
- Researchers Exchange Programme (participation and reporting)

N3 – Foresight-Knowledge-Innovation

The goal of the N3 is to accomplish the following tasks:

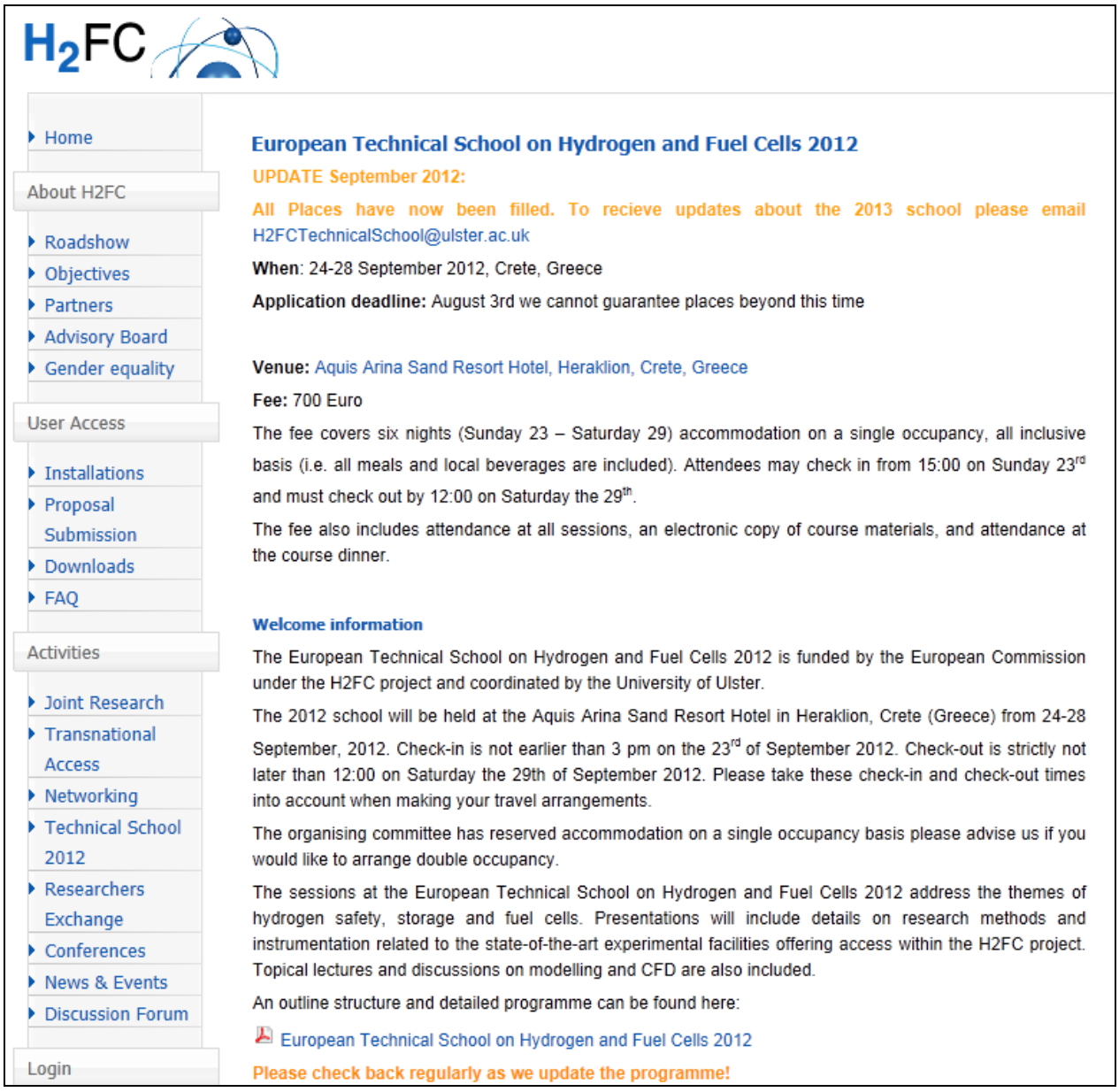
- Mapping existing European research infrastructures facilities
- Tracking the achievements in an European annual progress review
- Defining the requirements and needs for improved research infrastructures
- New research facilities and modifications

N4 – Dissemination and Public Relations

The goal of the N4 is to accomplish the following tasks:

- Regional training and dialogue
- Consultancy to support regional developments
- Road Show
- Workshops
- Conferences

2.7 Annex 8: Technical School page



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European Technical School on Hydrogen and Fuel Cells 2012

UPDATE September 2012:

All Places have now been filled. To recieve updates about the 2013 school please email H2FCTechnicalSchool@ulster.ac.uk

When: 24-28 September 2012, Crete, Greece

Application deadline: August 3rd we cannot guarantee places beyond this time

Venue: Aquis Arina Sand Resort Hotel, Heraklion, Crete, Greece

Fee: 700 Euro

The fee covers six nights (Sunday 23 – Saturday 29) accommodation on a single occupancy, all inclusive basis (i.e. all meals and local beverages are included). Attendees may check in from 15:00 on Sunday 23rd and must check out by 12:00 on Saturday the 29th.

The fee also includes attendance at all sessions, an electronic copy of course materials, and attendance at the course dinner.

Welcome information

The European Technical School on Hydrogen and Fuel Cells 2012 is funded by the European Commission under the H2FC project and coordinated by the University of Ulster.

The 2012 school will be held at the Aquis Arina Sand Resort Hotel in Heraklion, Crete (Greece) from 24-28 September, 2012. Check-in is not earlier than 3 pm on the 23rd of September 2012. Check-out is strictly not later than 12:00 on Saturday the 29th of September 2012. Please take these check-in and check-out times into account when making your travel arrangements.

The organising committee has reserved accommodation on a single occupancy basis please advise us if you would like to arrange double occupancy.

The sessions at the European Technical School on Hydrogen and Fuel Cells 2012 address the themes of hydrogen safety, storage and fuel cells. Presentations will include details on research methods and instrumentation related to the state-of-the-art experimental facilities offering access within the H2FC project. Topical lectures and discussions on modelling and CFD are also included.

An outline structure and detailed programme can be found here:

European Technical School on Hydrogen and Fuel Cells 2012

Please check back regularly as we update the programme!