

Grant agreement no.: FP7-284522

## H<sub>2</sub>FC

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

# Deliverable

<b>D4.6</b>	<b>1<sup>st</sup> European Annual Progress review for H2 and Fuel Cell Technologies (draft)</b>
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Due date of deliverable	<b>30<sup>th</sup> October 2012</b>
Completion date of deliverable	<b>15<sup>th</sup> September 2013</b>
Start date of H2FC project	<b>1<sup>st</sup> November 2011</b>
Duration of project	<b>48 months</b>
Version of deliverable	<b>1.0</b>
File name	D4.6_H2FC_1 <sup>st</sup> Annual Progress Review_ v1.0 (draft).doc
Responsible partner for deliverable	<b>BAM (done completely by KIT)</b>
Contributing partners (short names)	<b>All</b>

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The H<sub>2</sub>FC project is co-funded by the European Commission within the 7<sup>th</sup> Framework Program

**Document History**

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Issue Date	Version	Changes Made/Comments
10.11.2013	1.0	Olaf Jedicke

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# 1 H<sub>2</sub>FC Topic

## 1.1 Introduction

The 1<sup>st</sup> Annual Progress Review was held in ROME together with H<sub>2</sub>FC partners and external experts who got invited personally. This review is important for the project, because it collects the European view to the scientific status and especially bottlenecks and missing in basic science and technology development together.

The results and a compilation of submitted meanings and opinions will be handed over to the European Commission and Fuel Cell and Hydrogen Joint Undertaking, to verify the need to include science and research on fuel cells and hydrogen technology once again to HORIZON 2020 and FCH-JU 2.0.

The outcome and results of this annual progress review will be reported next, because progress is still ongoing while collecting detailed information from European experts!

## **1.2 List of participants to the review meeting**

Programme  
(Status 09.October.2013)

## 2013 European annual progress review

### *“Hydrogen and fuel cell science and engineering - national status”*

*ROME - Oct 16<sup>th</sup> and 17<sup>th</sup> 2013*



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Organized by

H<sub>2</sub>FC European Infrastructure ([www.h2fc.eu](http://www.h2fc.eu)) FP7 Capacities

and

EERA JP FCs&H<sub>2</sub> ([www.eera-set.eu/](http://www.eera-set.eu/))

## Session Scopes

- 1 Hydrogen Safety Issues and Technologies
- 2 Hydrogen Production Technologies and Systems
- 3 Hydrogen Storage Materials and Systems
- 4 Fuel Cells, Components, Stacks and Systems

## Session Chairs

- Vladimir Molkov; Marco Carcassi
- Inaki Azkarate; Anders Odegard
- Andreas Züttel; Thanos Stubos
- Angelo Moreno; Valentina Vetere

## Programme (latest update 09.10.2013)

### Wednesday 16<sup>th</sup> October 2013

9:00		Opening Registration		Eleonora Deschamps
<b>12:00</b>		<b>Get Together “Lunch Buffet”</b>	Talk No.	
13:00	13:15	<b>Welcome by Organizers</b>		
		Angelo Moreno	[1]	EERA
		Olaf Jedicke	[2]	H2FC Coordinator
13:15	13:30	N.N.	[3]	EC FP7 Representative
13:30	13:45	Nikos Lymperopoulos	[4]	Fuel Cell & Hydrogen Joint Undertaking
13:45	14:00	Paul Lucchese	[5]	NERGHY Scientific Grouping
		<b>Session 1</b>	Chairs	<i>Valentina Vetere</i>
		Main scope [2] [4]		<i>Anders Odegard</i>
14:00	14:20	Pierre Millet	[6]	Université Paris-Sud LPCES - ICMMO (France)
14:20	14:40	Inaki Azkarate	[7]	Tecnalia (Spain)
14:40	15:00	Bjorn Simonsen	[8]	Hydrogen Forum Norway (Norway)
15:00	15:20	Anders Hellman	[9]	Chalmers University of Technology (Sweden)
<b>15:20</b>	<b>15:50</b>	<b>Coffee Break</b>		
		<b>Session 2</b>	Chairs	<i>Andreas Züttel</i>
		Main scope [2] [3] [4]		<i>Inaki Azkarate</i>
15:50	16:10	Franck Verbecke	[10]	AREVA Helion (France)
16:10	16:30	Anders Odegard	[11]	SINTEF (Norway)
16:30	16:50	John Irvine	[12]	University of St. Andrews (UK)
16:50	17:10	Mauricio Rea	[13]	Sol Group S.p.a.(Italy)
17:10	17:30	Peter Holtappels	[14]	DTU Management



**19:00**                    **Workshop Dinner**  
 (included in registration fee and  
 free to all speakers)

**Thursday 17<sup>th</sup> October 2013**

8:00		Registration continuation		Eleonora Deschamps
		<b>Session 3</b>	Chairs	<i>Valentina Vetere</i>
		Main scope [2][3][4]		<i>Andreas Züttel</i>
8:30	8:50	Michel Latroche	[15]	CNRS / ICMPE (France)
8:50	9:10	Andreas Züttel	[16]	EMPA (Switzerland)
9:10	9:30	Christian Schlemminger	[17]	Norwegian University of Science and Technology (Norway)
9:30	9:50	Anthony Kucernak	[18]	Imperial College London (UK)
9:50	10:10	Frano Barbir	[19]	FESB University of Split (Croatia)
10:10	10:30	Angelo Moreno	[20]	ENEA (Italy)
<b>10:30</b>	<b>11:00</b>	<b>Coffee Break</b>		
		<b>Session 4</b>	Chairs	<i>Vladimir Molkov</i>
		Main scope [1]		<i>Marco Carcassi</i>
11:00	11:20	Vladimir Molkov	[21]	University of Ulster (UK)
11:20	11:40	Marco Carcassi	[22]	University Pisa (Italy)
11:40	12:00	Alexei Kotchourko	[23]	Karlsruher Institute of Technology (Germany)
12:00	12:20	Frank Markert	[24]	DTU Management Engineering (Denmark)
<b>12:20</b>	<b>14:00</b>	<b>Lunch Break</b>		
		<b>Session 5</b>	Chairs	<i>Andreas Züttel</i>
		Main scope [3]		<i>Thanos Stubos</i>
14:00	14:20	Benno Weinberger	[25]	INERIS (France)
14:20	14:40	Stefano Deledda	[26]	Institute for Energy Technique IFE (Norway)
14:40	15:00	Chloe Stockford	[27]	Imperial College London (UK)
15:00	15:20	Olivier Thomann	[28]	VTT (Finland)
<b>15:20</b>	<b>15:40</b>	<b>Coffee Break</b>		





<b>Session 6</b>			Chairs	<i>Angelo Moreno</i>
Main scope [1][2][3][4]				<i>Olaf Jedicke</i>
15:40	16:00	Thanos Stubos	[29]	NCSRD (Greece)
16:00	16:20	Eden Mamut	[30]	University of Constanza (Romania)
16:20	16:40	Felix Büchi	[31]	Paul Scherrer Institute (Switzerland)
16:40	17:00	Daria Vladikova	[32]	Institute of Electrochemistry and Energy Systems (Bulgaria)
<b>Closing Remarks</b>				
17:00	17:20	Angelo Moreno		EERA
		Olaf Jedicke		H2FC Coordinator



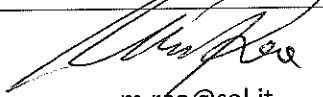

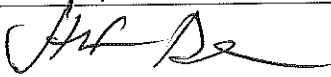
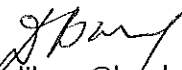

16<sup>th</sup> – 17<sup>th</sup> October 2013

List of Invited Speakers

	Full Name	Institution	Day(s) of participation	Signature
1	Nikolaos Lymperopoulos	FCH JU	16 <sup>th</sup> and 17 <sup>th</sup> Speaker	 nikolaos.lymperopoulos@fch.europa.eu
2	Paul Lucchese	FCH-JU NERGHY (Research Grouping on Fuel Cells and Hydrogen)	16 <sup>th</sup> Speaker	 paul.lucchese@cea.fr
3	Angelo Moreno	EERA	16 <sup>th</sup> and 17 <sup>th</sup>	 Angelo.moreno@enea.it
4	Olaf Jedicke	Karlsruhe Institute of Technology	16 <sup>th</sup> and 17 <sup>th</sup> Coordinator	 olaf.jedicke@kit.edu

	Full Name	Institution	Day(s) of participation	Signature
5	Benno Weinberger	INERIS (France)	17 <sup>th</sup> Speaker	 benno.weinberg@ineris.fr
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10	Marco Carcassi	University Pisa (Italy) <b>Partner</b>	16 <sup>th</sup> and 17 <sup>th</sup> Speaker	 carcassi@ing.unipi.it
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13	Frano Barbir	FESB University of Split (Croatia)	16 <sup>th</sup> and 17 <sup>th</sup> Speaker	 fbarbir@fesb.hr
14	Michel Latroche	CNRS / ICMPE (France)	16 <sup>th</sup> and 17 <sup>th</sup> Speaker	 michel.latroche@icmpe.cnrs.fr
15	Vladimir Molkov	University Ulster (UK) <b>Partner</b>	16 <sup>th</sup> and 17 <sup>th</sup> Speaker	 v.molkov@ulster.ac.uk
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17	Inaki Azkarate	Tecnalia Energy and Environment Division (Spain) <b>Partner</b>	16 <sup>th</sup> -17 <sup>th</sup> Speaker	 inaki.azkarate@tecnalia.com
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27	Maurizio Rea	SOL S.p.A. (Italy)	16 <sup>th</sup> and 17 <sup>th</sup> Speaker	 m.rea@sol.it
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31	Olivier Thomann	VTT (Finland)	16 <sup>th</sup> and 17 <sup>th</sup> Speaker	 olivier.thomann@vtt.fi

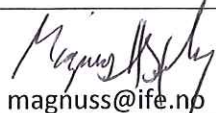
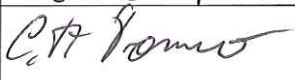
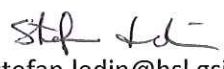

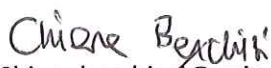
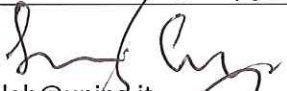



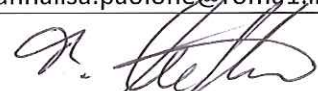
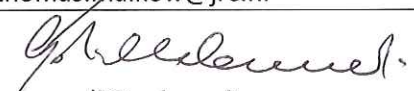
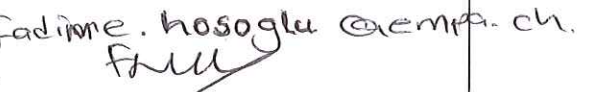





16<sup>th</sup> – 17<sup>th</sup> October 2013

### List of Participants

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24				
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