

## Members of Fuel Cells and Hydrogen 2 Joint Undertaking declare planned Additional Activities of the fifth reporting period January – December 2019

### Introduction

Within the EU Framework Programme for Research and Innovation Horizon 2020, the Fuel Cells and Hydrogen 2 Joint Undertaking (FCH 2 JU) is the second generation of the European public-private partnership comprising the Industry Grouping (Hydrogen Europe), the Research Grouping (Hydrogen Europe Research) and the European Union represented by the European Commission. The partnership will mobilise up to €1.33 billion over the next decade to bring to market a portfolio of fuel cell and hydrogen solutions in the fields of energy and transport.

In line with the FCH 2 JU Regulation<sup>1</sup>, which lays the foundation of the partnership, all FCH 2 JU beneficiaries need to report additional R&D and deployment investments (“In-Kind Additional Activities or IKAA”) made outside the framework of the FCH 2 JU in order to demonstrate the leverage effect of the programme and the growth of the sector.

These Additional Activities are defined as actions in Europe contributing to the FCH 2 JU's objectives but undertaken outside its work plan and not funded by the Union. Members of Hydrogen Europe and Hydrogen Europe Research and their affiliate entities are required to jointly deliver IKAA of at least €285M across the life span of the FCH 2 JU.

The underlying purpose of the IKAA exercise is hence to demonstrate private investments in the sector and ensure a balanced contribution made by the private and public entities in the context of the partnership. The IKAA will be complemented by In-Kind Contributions through participation in Projects (IKOP) as part of the calls for proposals issued by the FCH 2 JU and covering non-reimbursed eligible expenses.

### Analysis of planned 2019 IKAA

A total of 56 Hydrogen Europe and Hydrogen Europe Research members submitted their investment plans for the fifth reporting period from 1 January to 31 December 2019 to the FCH JU Governing Board in February 2019, including **157 different additional activities for a total amount of €200.8M** (see table below).

With these submissions for 2019, the members demonstrate strong and growing commitment to the goals of the partnership, far beyond the minimum requirements established in the Council Regulation.

Industry and Research Submissions			
Sector	Count of Activities	Count of Members	Estimated investment in IKAA (M€)
Industry	71	37	154.28
Research	86	19	46.55
<b>Total</b>	<b>157</b>	<b>56</b>	<b>200.84*</b>

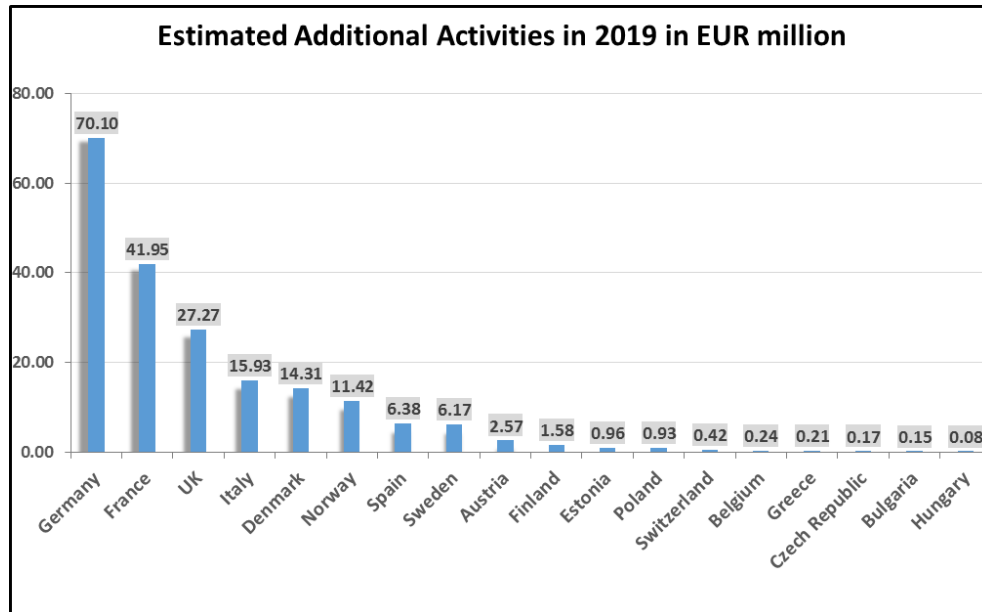
\* Out of €200.84M, an amount of €2.35M will not be subject to certification since below the threshold of €325k per year / member

In addition, the 45 – 55 % split between industry and research in terms of number of activities shows a balanced and growing interest to invest in, develop, and commercialize these innovative technologies.

### Geographical scope of planned 2019 IKAA

The IKAA submissions came from **18 different EU Member States** and Associated countries (see graph below), with organisations from Germany, France, the United Kingdom, Italy and Denmark providing the most sizable investments.

<sup>1</sup> Council Regulation (EU) No 559/2014 of 6 May 2014 establishing the Fuel Cells and Hydrogen 2 Joint Undertaking



### Industry submissions based on size of the company

The following table provides an overview on the submission of Industry members based on their size. It is clear that **SME participation**, especially significant in terms of the investments foreseen, illustrates that the FCH 2 JU is clearly spurring innovation, economic growth, and job creation across the European Union in this key subset of the industrial network in hydrogen and fuel cells.

Size of Company of the Industry Members			
Sector	Count of Activities	Count of Members	Estimated investment in IKAA (M€)
Large	35	21	78.14
SME	36	16	76.14
<b>Total</b>	<b>71</b>	<b>37</b>	<b>154.28</b>

### Overall planned 2019 IKAA per pillar

The activities undertaken under the **Energy Pillar** focus on heat and power equipment as well as hydrogen production. The activities within the **Transport Pillar** include transportation applications (i.e. vehicles) and transport infrastructure. Finally a number of activities deal with regulations, codes and standards, as well as education as the table below indicates.

Energy /Transport Distribution		
Application	Estimated, (M €)	%
Heat and Power equipment	59.83	30%
Hydrogen Production	53.99	27%
Transportation	71.41	35%
Transport Infrastructure	12.56	6%
Regulations, standards and education	3.05	2%
<b>Total</b>	<b>200.84</b>	<b>100%</b>

### Next Steps

Planned figures relate to activities that are to be carried out in a highly dynamic business environment. As activities evolve, both research and industry members will provide an update of completed investments through the mandatory IKAA reports. The final validation of these activities will be accomplished through certification of reported amounts by independent external auditors in the course of the year 2020.

For any questions regarding IKAA please do not hesitate to contact either of the FCH 2 JU partners below:

	<b>Hydrogen Europe</b>	<b>Hydrogen Europe Research</b>
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Email:	<a href="mailto:secretariat@hydrogeneurope.eu">secretariat@hydrogeneurope.eu</a>	<a href="mailto:secretariat@hydrogeneurope-research.eu">secretariat@hydrogeneurope-research.eu</a>
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