

Members of Fuel Cells and Hydrogen 2 Joint Undertaking Additional Activities Final Certified Report Period July 2014 to December 2015

Introduction

Within the European innovation framework 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 (N.ERGHY) and the European Union represented by the European Commission. The partnership will mobilize up to €1.33 billion over the next decade to bring to market a portfolio of Fuel Cells and Hydrogen solutions in the fields of energy and transport.

In line with the FCH 2 JU Regulation¹ laying down the foundation for the partnership, all FCH 2 JU beneficiaries need to report additional R&D and deployment investments (“In-Kind Additional Activities”) made outside the FCH 2 JU in order to demonstrate the leverage effect of the programme and the growth of the sector.

The Additional Activities (IKAA) 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 N.ERGHY and their affiliate entities are required to jointly deliver IKAA of at least €285 million across the life span of the FCH 2 JU of 2014-2024.

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.

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

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.

Analysis of 2014-2015 IKAA Final Report

Hydrogen Europe and N.ERGHY members reported their final certified investment figures for the reporting period 1 July 2014 to 31 December 2015 to the FCH 2 JU Governing Board in June 2016.

In order to be considered as “reported”, the figures of the submitted activities had to be certified by an external auditor or an independent public officer in case of research organizations in line with Horizon 2020 practices. Members whose cumulated contributions during that period were below the threshold of €325.000 (largely SMEs and small research organizations) were encouraged to report despite being exempted from certification.

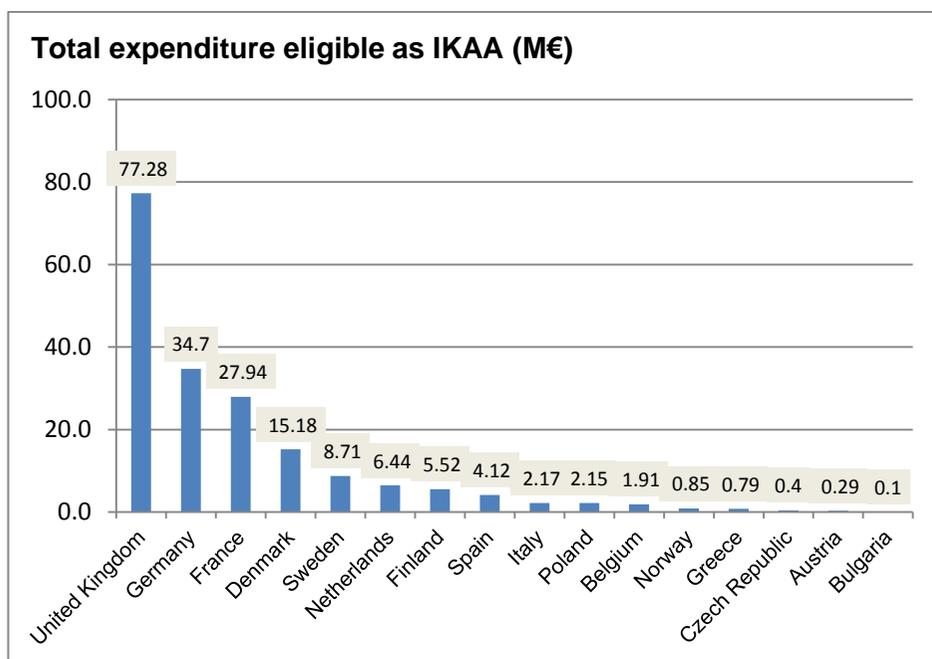
Industry or Research / Submissions		
Sector	Number of members	Estimated investment eligible as IKAA (M€)
Industry	39	167,04
Research	20	21,53
Total	59	188,57*

* Out of 188.57 M €, an amount of 2.15 M € was not subject to certification since below the threshold

A total of 59 research and industry organizations reported their investments for a cumulative total amount of €188,57 million (see table above) representing over 60% of the target set for the entire duration of the FCH 2 JU. **By reporting such high figures for the first 18 months of FCH 2 JU, the sector is showing strong and on-going commitment to the goals of the partnership from the outset.**

With a 33-77% split between research and industry submissions in terms of number of entities, the sector is manifesting a clear intention to invest, develop, and commercialize these innovative technologies, both on the side of industry and research.

The submissions came from 16 different EU Member States and Associated Countries (see graph below), with organizations from the United Kingdom, Germany and France providing the most sizable investments but also showing participation from Central and Eastern European States as well as Southern European Countries.



With 20 contributing SMEs, of which many are start-ups, the IKAAs final report shows that the FCH 2 JU is clearly spurring innovation, economic growth and job creation in the European Union.

Size of Company of Industry Members		
Type	Number of submitting members	Estimated investment eligible as IKAAs (M€)
Large	19	107,81
SME	20	59,23
Total	39	167,04

Activities undertaken under the **Energy Pillar** (54% of reported amounts) comprised:

- Hydrogen production (large scale green hydrogen production via electrolysis, hydrogen purification, power-to-hydrogen and storage of renewables)
- Heat and power equipment (distributed power generation Fuel Cell applications, self-sufficient household systems, back-up systems, manufacturing facilities)
- Regulations, standards and education (energy storage roadmaps, including dissemination activities and awareness, commercialisation strategies, patents)

The activities undertaken under the **Transport Pillar** (46% of reported amounts) included:

- Transportation (FC cars, FC buses, FC range extenders, material handling vehicles, Auxiliary Power Units for aviation and trucks)
- Transport Infrastructure (hydrogen refuelling infrastructure, including on-site green H₂ production)

Energy /Transport Distribution	
Sector	Estimated investment eligible as IKAAs (M€)
Energy	101.98 (54%)
Transport	86.59 (46 %)
Total	188,57

Conclusion and Next Steps

With a certified amount of €188,57 million for its first IKAA reporting exercise, the Fuel Cell and Hydrogen sector is showing strong commitment to the objectives set by the FCH 2 JU Regulation. In addition, the sector is determined to continue on the same path by doing its utmost to produce strong figures for the next 2016 reporting period.

Planning, reporting and verifying IKAA is an ongoing annual exercise. Now that the IKAA 2014-2015 Final Report has been submitted, much emphasis will be put on the next reporting period running from 1 January to 31 December 2016. The collection of 2016 planned amounts was completed by the end of 2015. Subsequently, certification of realised activities in 2016 will be undertaken by members in the first half of 2017.

For any questions regarding IKAA do not hesitate to contact both FCH 2 JU Members using details below:

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