



**FUEL CELLS AND HYDROGEN**  
JOINT UNDERTAKING

# European Hydrogen Safety Panel

*Workshop*  
***“Safe Storage of Hydrogen”***

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# Background

European Hydrogen Safety Panel (EHSP)



## A brief timeline

- In 2006 and 2009 NoE HySafe was suggesting an activity for **sharing lessons learned and hydrogen safety experience across project boundaries** and to **maintain this expertise eventually even beyond program terms**.
- In 2014 the International Association for Hydrogen Safety HySafe proposed the installation of a safety panel to the Executive Director and Governing Board of the FCH JU.
- After several discussions about formal aspects, terms of reference, vision, mission, mandates, etc. the **European Hydrogen Safety Panel was launched by the FCH 2 JU in 2017.**



# Vision

European Hydrogen Safety Panel (EHSP)



## Reflecting the FCH 2 JU vision

Hydrogen plays a key role in the Energy System constituting a **safe** and sustainable Energy Carrier.

Hydrogen is an enabler of the Energy Transition towards a decarbonized system.



**EHSP ROLE:** to provide **independent safety expertise, objective information, education and training** in different forms for various groups of stakeholders and support the anticipated upscaling of hydrogen energy application.



# Mission, Objectives and Corresponding Activities

European Hydrogen Safety Panel (EHSP)



**The EHSP assist the FCH 2 JU both at programme and at project level**

- in assuring that hydrogen safety is adequately managed, and
- to promote and disseminate hydrogen safety culture

Activities structured in  
**4 Task Forces**



**TF1**  
**Project**  
**level**



**TF2**  
**Program**  
**level**



**TF3**  
**Data**  
**Collection**



**TF4**  
**Public**  
**Outreach**



# Scope of Activities

European Hydrogen Safety Panel (EHSP)



## Activities are grouped in the 4 pillars and organised in Task Forces (TF)

TF1 Support at Project level



- Coordination of a package of measures to avoid any accident by integrating safety learning, expertise and planning into FCH2 JU funded project.
- e.g. Safety plans review, in-situ reviews, courses, data collection/ monitoring ...

TF2 Support at Programme level



- answering urgent questions, short introductions to hydrogen safety
- provision of specific guidelines (collecting inputs from projects)
- ...

TF3 Data collection and assessment



- Support to HIAD - Hydrogen Incidents and Accidents Database
- Analysis of existing events, derive lessons learned and provide recommendations, collaboration with similar activities of the US DoE and EIGA...

TF4 Public Outreach



- Development of a comprehensive outreach, education and training programme for the safety component of FCH2 JU projects
- Newsletter and website, containing the lessons learned and links



# Current EHSP Members – the Pool of Experts

European Hydrogen Safety Panel (EHSP)



Inaki Azkarate



Stuart Hawksworth



Thomas Jordan



Georg Wilfried Mair



Marta Maroño



Daniele Melideo



Vladimir Molkov



Ernst-Arndt Reinecke



Pratap Sathiah



Ulrich Schmidtchen



Etienne Studer



Trygve Skjold



Tom Van Esbroeck



Elena Vyazmina



Jennifer Wen



For more information see Members of the EHSP : <https://www.fch.europa.eu/page/european-hydrogen-safety-panel>

# Outcomes

European Hydrogen Safety Panel (EHSP)



- **Safety Planning and Management Guidance**
- **Workshops: Safety of Electrolysis, Safe Storage, Safety at H Laboratory**
- **Assessment and lessons learnt from HIAD 2.0**
- **Emergency Crisis Management**
- **Collaboration: UHSP, IA HySafe, ICHS, ..**
- **Communication Strategy, Website, Key Messages, FAQs, TIM**



Thank you for your attention

<https://www.fch.europa.eu/page/european-hydrogen-safety-panel>