



FCH JU Programme Review Days

2 - 3 December 2021

Virtual Event

THURSDAY, 2 DECEMBER

09:00 Welcome

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09:20 Bart Biebuyck, Executive Director, Fuel Cells and Hydrogen Joint Undertaking (FCH JU)

Bertrand Piccard, Initiator, Pilot and Chairman, Solar Impulse Foundation (TBC)

09:20 FCH JU Programme Status

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09:35 Mirela Atanasiu, Head of Unit Operations & Communication, FCH JU

09:35 FCH JU Projects Portfolio Analysis

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10:35 Hydrogen Production, Distribution and Injection into the Gas Grid

Nikolaos Lympieropoulos, Project Officer, FCH JU

Hydrogen Storage and Distribution

Dionisis Tsimis, Project Officer, FCH JU

Transport Applications

Lionel Boillot, Project Officer, FCH JU

Stationary Applications

Antonio Aguilo Rullan, Project Officer, FCH JU

Support for Market Uptake

Alberto Garcia Hombrados, Project Officer, FCH JU

10:35 Joint Research Centre of the European Commission support to FCH JU activities

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10:45 Pietro Moretto, Deputy Head of Unit Energy Storage, Joint Research Centre



European
Commission

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10:45 Break

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11:00

11:00 Parallel Sessions

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12:20

Electrolysers for Industrial Application
moderated by Nikolaos Lymperopoulos,
Project Officer, FCH JU

[HyBalance](#) - *HyBalance* - Jessie Ponce,
Air Liquide

[Demo4Grid](#) - *Demonstration of 4MW
Pressurized Alkaline Electrolyser for
Grid Balancing Services* - Ewald Perwög,
MPREIS Warenvertriebs GmbH

[Haeolus](#) - *Hydrogen-Aeolic Energy with
Optimised eElectrolysers Upstream of
Substation* - Federico Zenith, SINTEF

[Djewels](#) - *Delfzijl Joint Development of
green Water Electrolysis at Large Scale* -
Rolf Vermeij, NOURYON

**Transport Applications and Refuelling
Infrastructure**

moderated by Lionel Boillot, Project
Officer, FCH JU

[H2ME / H2ME 2](#) - *Hydrogen Mobility
Europe*

[ZEFER](#) - *Zero Emission Fleet vehicles For
European Roll-out* - Lisa Ruf, Element
Energy

[JIVE / JIVE 2 / MEHRLIN](#) - *Joint Initiative
for hydrogen Vehicles across Europe* -
Madeline Ojakovoh, Element Energy

[H2Bus Europe](#) - *Fuel Cell Electric Buses* -
Lars Jakobsen, EVERFUEL Europe A/S

[Corridor H2 Occitanie](#) - *Green hydrogen
for trucks, refrigeration units and coaches*
- Raphael Schoentgen, Hydrogen Advisors

12:20 Break

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13:00

13:00 Parallel Sessions

<p>14:20</p>	<p>Electrolysers for Industrial Application moderated by Nikolaos Lympieropoulos, Project Officer, FCH JU</p> <p><u>MultiPLHY</u> - <i>Multimegawatt high-temperature electrolyser to generate green hydrogen for production of high-quality chemical products</i> - Julie Mougín, CEA</p> <p><u>GrInHy2.0</u> - <i>Green Industrial Hydrogen via steam electrolysis</i> - Simon Kroop, Salzgitter Mannesmann Forschung GmbH</p> <p><u>Testing Protocols for Electrolysers</u> - Alberto Pilenga, JRC</p> <p><u>Scaling-up Electrolysers under Green Deal Call</u> - Eleni Kontonasiou, CINEA</p>	<p>Heavy Duty Transport Applications moderated by Lionel Boillot, Project Officer, FCH JU</p> <p><u>H2Haul</u> - <i>Hydrogen fuel cell trucks for heavy-duty, zero emission logistics</i> - Andrew Flagg, Element Energy</p> <p><u>FLHYSAFE</u> - <i>Fuel Cell HYdrogen System for AircraFt Emergency operation</i> - Guillaume Albouze, SPU</p> <p><u>ShipFC</u> - <i>Piloting Multi MW Ammonia Ship Fuel Cells</i> - Tore Boge, MARITIME CLEANTECH</p> <p><u>H2SHIPS</u> - <i>System-Based Solutions for H2-Fuelled Water Transport in North-West Europe</i> - Christian-Frédéric Berthon, EIFER</p>
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14:20 Break

14:30

14:30 Parallel Sessions

15:50

Next Generation Electrolysers
moderated by Dionisis Tsimis, Project
Officer, FCH JU

ANIONE - Anion Exchange Membrane
Electrolysis for Renewable Hydrogen
Production on a Wide-Scale - *Antonino
Salvatore Arico, CNR-ITAE*

CHANNEL - *Development of the most
Cost-efficient Hydrogen production unit
based on AnioN exchange membrane
Electrolysis* - Thulile Khoza, SINTEF

NEWELY - *Next Generation Alkaline
Membrane Water Electrolysers with
Improved Components and Materials* -
Aldo Gago, DLR

SWITCH - *Smart Ways for In-situ Totally
integrated and Continuous multisource
generation of Hydrogen* - Luigi Crema,
FBK

**Building Blocks for Heavy Duty
Transportation (Tanks/Compressors/FC)**
moderated by Pietro Caloprisco, Project
Officer, FCH JU

COSMHYC / COSMHYC XL - *Combined
hybrid Solution of Metal Hydride and
mechanical Compressors for eXtra Large
scale hydrogen refuelling stations* - *David
Colomar, EIFER*

TAHYA - *TAnk HYdrogen Automotive* - Axel
Seifert, OPTIMUM

INN-BALANCE - *INNovative Cost
Improvements for BALANCE of Plant
Components of Automotive PEMFC Systems*
- Consuelo Mora González, AYESA

DIGIMAN - *DIGItal MAterials
CharacterisatioN proof-of-process auto
assembly* - Joël Pauchet, CEA

15:50 Break

16:00

16:00 Parallel Sessions

17:20

H2 Distribution and Storage/Carriers
moderated by Dionisis Tsimis, Project
Officer, FCH JU

HyCARE - An innovative approach for
renewable energy storage by a
combination of hydrogen carriers and
heat storage - Marcello Baricco, UNITO

HySTOC - Hydrogen supply and
transportation using liquid organic
hydrogen carriers - Ralf Ott,
HYDROGENIOUS

HIGGS - Hydrogen In Gas GridS: a
systematic validation approach at
various admixture levels into high-
pressure grids - Vanesa Gil, FHA

HyGrid - Flexible Hybrid separation
system for H2 recovery from NG Grids -
Fausto Gallucci, TU/e

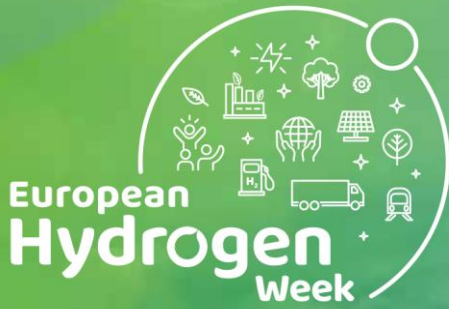
(European) H2 Valleys
moderated by Pedro Guedes de Campos,
Financial Engineering Officer, FCH JU

BIG HIT - Building Innovative Green
Hydrogen systems in an Isolated Territory:
a pilot for Europe - Jesus Simon, FHA

HEAVENN - Hydrogen Energy Applications
for Valley Environments in Northern
Netherlands - Patrick Cnubben, SEV

GREEN HYSLAND - Deployment of a H2
Ecosystem on the Island of Mallorca -
Antonio Martinez Rodriguez, ENAGAS

MULTICIT'HY - Production and distribution
stations of decarbonated hydrogen -
Stephane Manginot, Hynamics/EDF Group



FCH JU Programme Review Days

FRIDAY, 3 DECEMBER

09:30 -
10:50

Parallel Sessions

PNR for Standards and safety
moderated by Alberto Garcia
Hombrados, Project Officer, FCH JU

European Hydrogen Safety Panel (EHSP) - Iñaki Azkarate, EHSP

HyTunnel-CS - *PNR for safety of hydrogen driven vehicles and transport through tunnels and similar confined spaces* - Vladimir Molkov, ULster

PRESLHY - *Pre-normative research for safe use of liquid hydrogen* - Thomas Jordan, KIT

THyGA - *Testing Hydrogen admixture for Gas Applications* - Patrick Milin, ENGIE

Stationary Applications: Gas to Power and Heat

moderated by Antonio Aguilo Rullan,
Project Officer, FCH JU

PACE - *Pathway to a Competitive European FC mCHP market* - Hans Korteweg, COGEN EUROPE

RoRePower - *Robust and Remote Power Supply* - Jari Kiviaho, VTT

CH2P - *Cogeneration of Hydrogen and Power using solid oxide based system fed by methane rich gas* - Luigi Crema, FBK

REMOTE - *Remote area Energy supply with Multiple Options for integrated hydrogen-based Technologies* - Massimo Santarelli, POLITO

10:50 -
11:00

Break

11:00 -
12:20

Parallel Sessions

Education and Training
moderated by Alberto Garcia
Hombrados, Project Officer, FCH JU

[FCHgo](#) - Fuel Cells HydroGen
educatiOnal model for schools - Ms
Tiziana Altiero, UNIMORE

[HyResponder](#) - European Hydrogen
Train the Trainer Programme for
Responders - Sile Brennan, ULster

[NET-Tools](#) - Novel Education and
Training Tools based on digital
applications related to Hydrogen and
Fuel Cell Technology - Olaf Jedicke, KIT

[TEACHy](#) - Teaching Fuel Cell and
Hydrogen Science and Engineering
Across Europe within Horizon 2020 -
Robert Steinberger-Wilckens, UoB

**Fuel Cell Technology for Stationary
Applications**

moderated by Antonio Aguilo Rullan,
Project Officer, FCH JU

[NewSOC](#) - Next Generation solid oxide
fuel cell and electrolysis technology -
Anke Hagen, DTU

[EMPOWER](#) - European methanol powered
fuel cell CHP, Johan Tallgren, VTT

[MAMA-MEA](#) - Mass manufacture of MEAs
using high speed deposition processes -
Silvain Buche, Johnson Matthey Fuel Cells

[OxiGEN](#) - Next-generation Solid Oxide
Fuel Cell stack and hot box solution for
small stationary applications, Robert
Germar, Robert Germar, SG SEPR

12:20 -
14:00

Break

14:00 -
15:20

Parallel Sessions

Tools for market development
moderated by Kostis Sakellaris,
Knowledge Management Officer, FCH JU

[Project Development Assistance \(PDA\)](#)
- Nadine Hoelzinger, Spilett

[Fuel Cells and Hydrogen Observatory \(FCHO\)](#) - Luca Bertuccioli, e4tech

[Mission Innovation Hydrogen Valley Platform](#) - Markus Kaufmann, Roland Berger

[CertifHy](#) - *Developing a European Framework for the generation of guarantees of origin for green hydrogen*
- Patrick Maio, HINICIO

Early Research on alternative routes for Hydrogen production
moderated by Claudiu Pavel, Project Officer, FCH JU

[BIOROBURplus](#) - *Advanced direct biogas fuel processor for robust and cost-effective decentralised hydrogen production* - Massimiliano Antonini, HYSYTECH

[PECSYS](#) - *Technology demonstration of large-scale photo-electrochemical system for solar hydrogen production* - Sonya Calnan, HZB

[HYDROSOL-beyond](#) - *Thermochemical HYDROgen production in a SOLar structured reactor: facing the challenges and beyond* - Chrysoula Pagoura, CERTH

[112CO2](#) - *Low temperature catalytic methane decomposition for COx-free hydrogen production* - Adélio Mendes, FEUP

15:20 -
15:30

Break

15:30 -
15:40

Hydrogen applications in the defence sector: research and project opportunities

Panagiotis Kikiras, Head of Unit Technology and Innovation at European Defence Agency



FCH JU Programme Review Days

15:40 -
16:30

Future funding for research on H2 Closing Panel Discussion

Introduced and moderated by Bart Biebuyck, Executive Director, Fuel Cells and Hydrogen Joint Undertaking (FCH JU)

Panellists:

Mathiew Mori - Programme Director at INTERREG North West Europe,

Andrea Gentili - Deputy Head of Unit at European Commission - DG R&I,

Stephen Jackson - Chief Funding and Intelligence Officer at Hydrogen Europe