



FUEL CELLS AND HYDROGEN JOINT UNDERTAKING

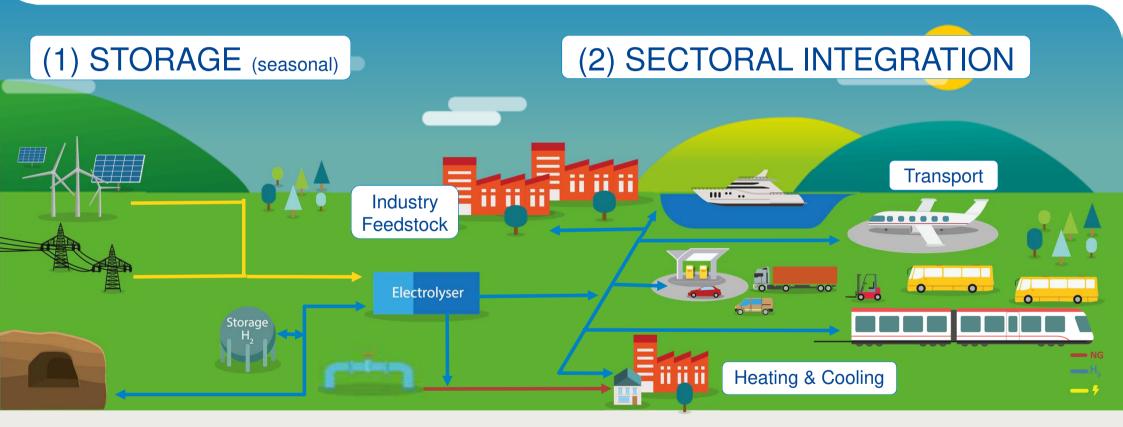
FCH-JU: Accelerating the Implementation of hydrogen and fuel cells in Europe



Ivana Hockova 3/10/2019 Kosice, SK

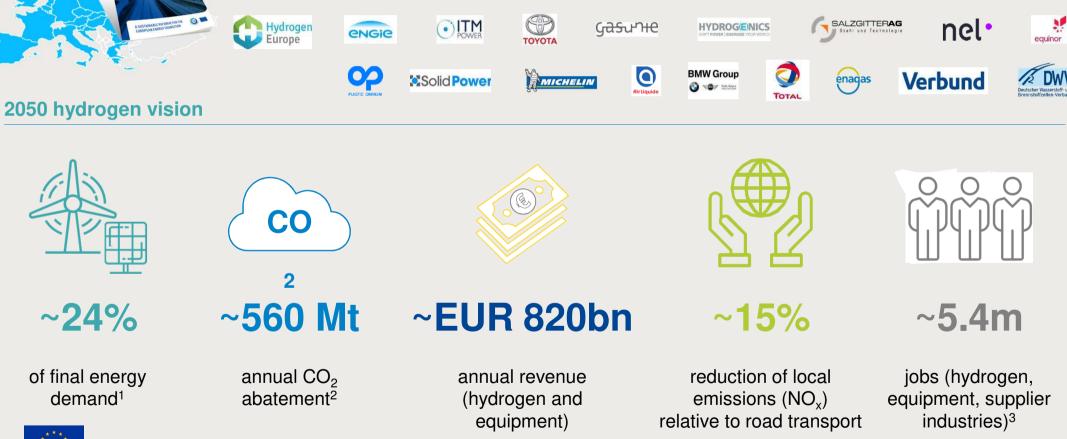
The role of hydrogen in our society & economy

Hydrogen allows more renewables in the energy system through storage and enables sectoral integration





Besides CO₂ abatement, deployment of the hydrogen roadmap also cuts local emissions, creates new markets and secures sustainable employment in EU



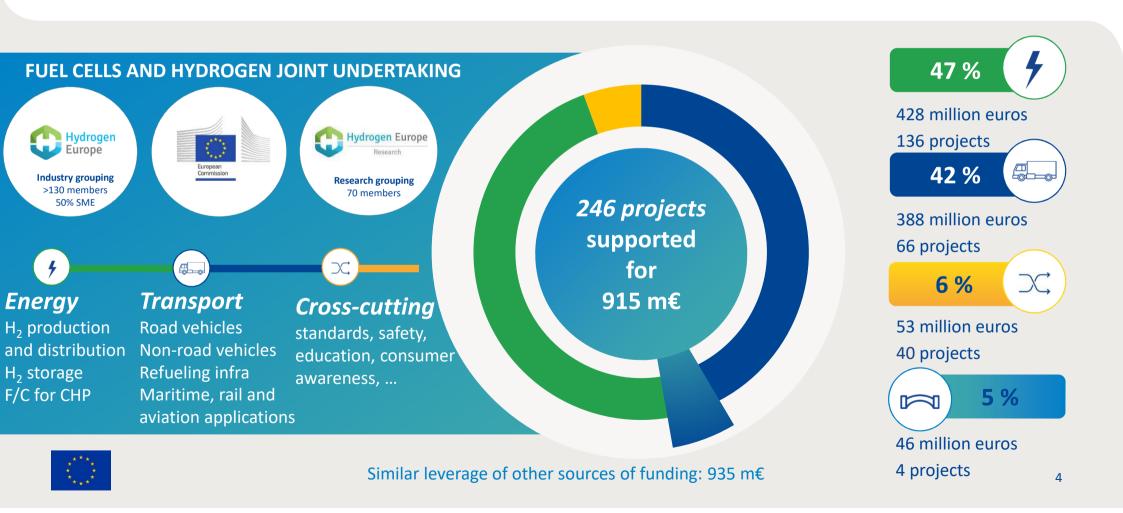


1 Including feedstock 2 Compared to the reference technology scenario 3 Excluding indirect effects SOURCE: Hydrogen Roadmap Europe team

Strong public-private partnership with a focused objective

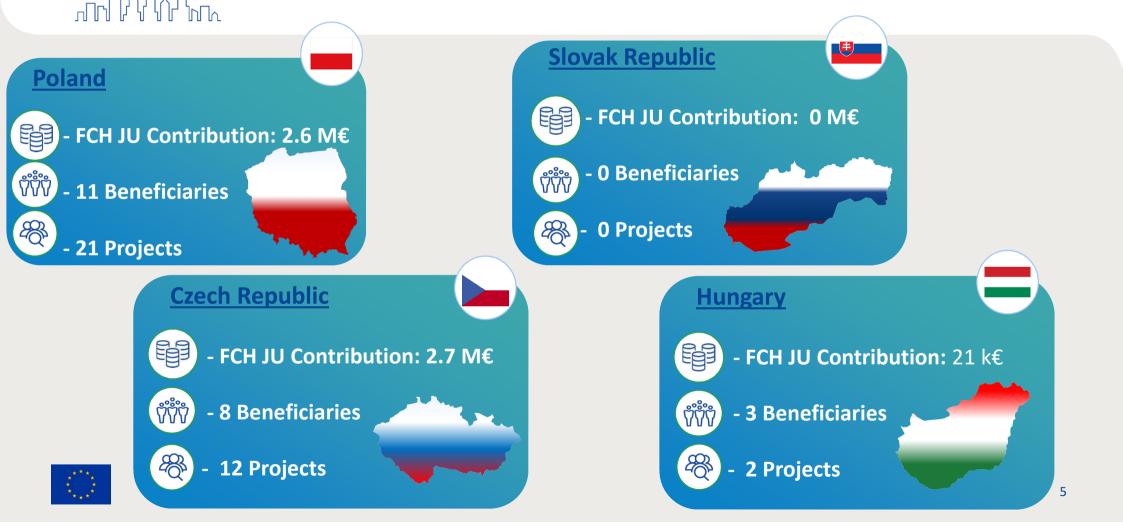


A combined private-public of 1.85 billion Euro has been invested to bring products to market readiness by 2020



Overview of FCH JU activities in V4 countries









Clean H₂ production and industry



Electrolysis demonstrations for energy storage and greening of Industry

Continues support to develop higher capacity electrolysers led to cost reduction and increased interest by industry



https://www.refhyne.eu/

Coordinating of cross cutting activities



SAFETY, STANDARDS, EDUCATION...



8

Preparing the European workforce

Projects running include training packs in different languages, formats, means, etc.





European hydrogen emergency response training program for first responders Follow-up project to start in Jan '20



in person training, e-learning, blended learning...virtual reality, serious games... ...mock-up installations...



IEd(Hy) undergraduate & graduate education PhD BEng/BSc MEng/MSc KnøwĤy

Courses for professionals/ general public



FCH-JU initiative:92 Regions/Cities from22 countries (about 25% of EU) study to:(1) assess FCH applications,
(2) identifying financing/funding options(3) develop roadmaps,
(4) engage their stakeholders



NEXT

Yearly program review days and stakeholder forum





Program Review days 19 & 20 Nov. 2019 Stakeholder Forum 21 Nov 2019 Charlemagne building Brussels, Belgium







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For further information

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