Hydrogen Delivery Risk Assessment and Impurity Tolerance Evaluation

Project Flyer

First Period

This project has received funding from the Fuel Cells and Hydrogen 2 Joint Undertaking under grant agreement No 779475. This Joint Undertaking receives support from the European Union's Horizon 2020 research and innovation programme, Hydrogen Europe and Hydrogen Europe research.

Disseminating & communicating thanks to...

- ✓ ***WORKSHOPS with OEMs & H2 suppliers***

International H_2 for transport community meets up at MetroHyVe/ HYDRAITE workshop

VSL, The Netherlands - 11 and 12 September 2019

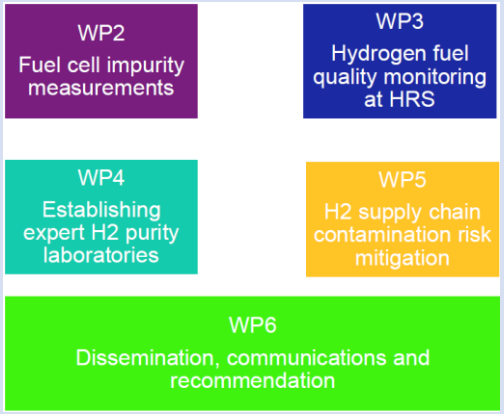
- ✓ ***PUBLICATIONS & CONFERENCES***
- ✓ ***PUBLIC WEBPAGE*** https//hydraite.eu

Project overview:

- 3-year EU-funded (FCH JU) project: started 01/2018 - Grant 3.5 M€, coordinated by VTT.
- 6 European leading FC research centres and independent European automotive stack manufacturer

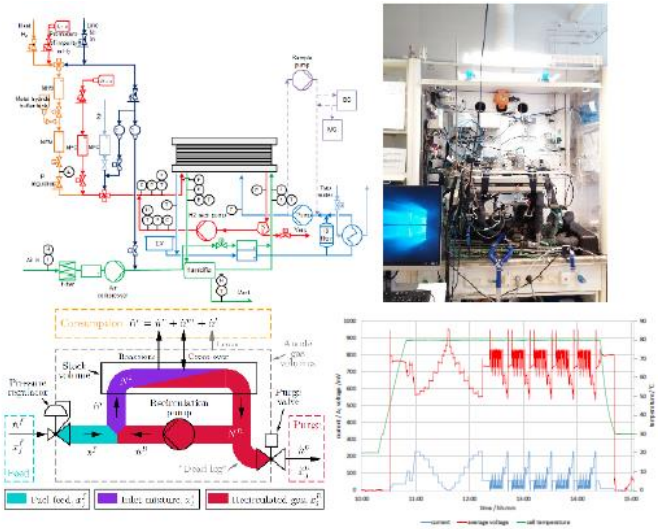
Objectives: To solve the hydrogen quality for transportation applications

- Effects of the hydrogen supply chain derived contaminants on the fuel cell systems in automotive applications
- Technical data on fuel composition from HRS
- Establish three European laboratories, capable of measuring all of the contaminants according to ISO 14687
- Recommendations for current ISO 14687 standard



Activities & Achievements

Testing impact of impurities in conditions representative of a real FC system

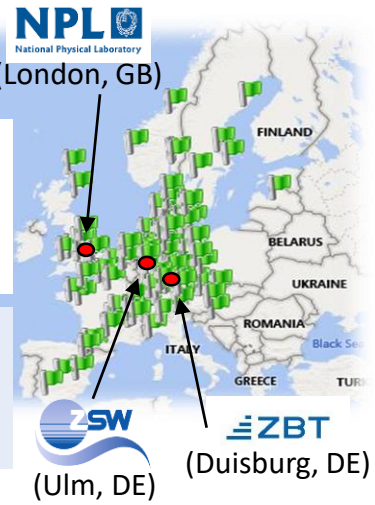


Collecting and analysing H_2 at Hydrogen Refueling Stations. & Identifying new impurities

Activities & Achievements

Establishing 3 EU laboratories for Hydrogen quality analysis

- ✓ Capable ISO 14687
- ✓ Gas sampling
- ✓ Comparability



Developping and applying a methodology for risk assessment