

Hydrogen Delivery Risk Assessment and **Impurity Tolerance E**valuation

H₂ fuel quality for transport applications













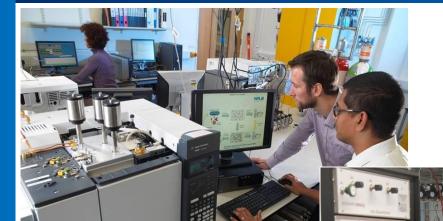


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https//hydraite.eu





3 analytical laboratories ready ISO 14687







Project overview:

- 3-year EU-funded (FCH JU) project:
 01/2018 12/2020
- Grant 3.5 M€, coordinated by VTT
- 6 European leading FC research centres and independent European automotive stack manufacturer

Project objective: To solve the hydrogen quality for transportation applications

Effects of the hydrogen supply chain derived contaminants on the fuel cell systems in automotive applications

Map of the opened H2

refuelling stations in Europe in 2019 (green flags) and of the

three independent analytical

laboratories established in HYDRAITE project (red dots)

- ➤ Recommendations for current ISO 14687 standard
- Establish three European laboratories, capable of measuring all of the contaminants according to ISO 14687

Multiple inter-comparisons: demonstrate capability and comparability



Availability

And

Quality

3 analytical laboratories ready ISO 14687



Q2 2020

Gas sampling

ZSW (Ulm, DE)

- Capable ISO 14687
- Gas sampling



NPL (London area, UK)

Capable ISO 14687

BELARUS

ROMANIA

GREECE

UKRA

Gas sampling NP

National Physical Laboratory