



FUEL CELLS
AND HYDROGEN
JOINT UNDERTAKING



FCH 2 JU & S2R JU: HYDROGEN TRAIN WORKSHOP

Hosted by HyER

Monday 15th. May 2017

Norway House, Rue Archimede, Brussels

Agenda

- 10.00** Registration and Coffee
- 10.30** Welcome and Introduction by Matthew Baldwin, Deputy Director-General, DG MOVE
- 10.40** **FUEL CELL APPLICATIONS FOR RAILWAYS – ADDRESSING THE CHALLENGE**
Keynote Speakers:
Bart Biebuyck, Executive Director, FCH-JU
Carlo Borghini, Executive Director, Shift2Rail JU
Javier Navarro, Technical Advisor Government of Aragon and HyER Board member
Round Table Discussion Moderated by Jon Jordan, Head of Secretariat, HyER
- 11.50** **ADAPTING THE TECHNOLOGY**
Fuel Cells for Rail Applications
Oben Uluc, Sales Director, Ballard Power Systems
Harnessing Renewable Energy Storage and Powering Fleets for Heavy Mobility
Mark Kammerer, Business Sales Manager, Hydrogenics
Needs and experiences from the Railway sector
Freight case: Maik Gruel, Product Manager AC Locomotives, Bombardier
Regional case: Michael Ritter, Business Development Manager, Alstom
Q&A - Moderated by Mirela Atanasiu, Head of Unit Operations & Communications, FCH-JU

13.15 *Lunch*

14.00 **CASE STUDIES**

Hydrogen Trains Potential in Groningen

Rene Herder, Project Manager, Province of Groningen

Alternative Railway Electrification in Norway

Dr Steffen Moller-Holst, Vice President Marketing, SINTEF

Hydrogen Trains in Lower Saxony

Tobias Merten, Head of Traffic & Transport Innovation, E&Y Mobility Innovation

Q&A, moderated by Jon Jordon, Head of Secretariat, HyER

15.00 *Coffee break*

15.30 **PANEL DISCUSSION: FROM STUDY TO IMPLEMENTATION**

Christophe Cheron, Shift2Rail coordination and partnerships for research, SNCF Innovation & Recherche

Frederic Chauvet, Project Manager, SNCF

Joachim Winter, Senior Scientist and Project Manager - Next Generation Train – NGT, DLR

Dirk Berkmann, Transport Responsible Brussels Office, DLR

Asier Irure, Vehicle Area Manager, New Products Department, CAF

Laurent Nicod, European Railway R&D S2R Traction TD Leader, ALSTOM

Moderated by Nicolas Brahy, Director, Hydrogen Europe

16:50 **CLOSING NOTES BY FCH/S2R/DG MOVE**

17.00 **Drinks Reception**

Venue kindly provided by the Oslo Region Office