

Workshop on aeronautical applications of fuel cells and hydrogen technologies

15 – 16 September 2015

Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR)

Institute of Space Propulsion | Lampoldshausen | 74239 Hardthausen | Germany

Program

15 September 2015

13:00 – 14:00 Arrival and Registration

14:00 – 14:15 Introduction of the Cleansky 2 Joint Undertaking by Mr Dautriat (Executive Director of Cleansky 2 Joint Undertaking)

14:15 – 14:30 Introduction of the Fuel Cells and Hydrogen 2 Joint Undertaking by Mr De Colvenaer (Executive Director of Fuel Cells and Hydrogen 2 Joint Undertaking)

Session 1: Fuel Cells in aeronautical applications

14:30 – 14:50 “Economic study” by Mr Crespi (Air Liquide)

14:50 – 15:10 “Airbus Fuel Cell Applications and Fuel Cell Strategy” by Mr Guigou (Airbus)

15:10 - 15:30 “Fuel Cell based solutions for Dassault-Aviation business jets” by Mr Savin (Dassault)

15:30 – 16:00 Coffee break

16:00 – 16:20 “Optimized Fuel Cell and Hybrids for aircraft aviation” by Mr Kallo (DLR)

16:20 – 16:40 “Fuel Cells in aeronautical applications – Need of dedicated Balance of Plant” by Mr Boudjemaa (SNECMA/SAFRAN)

16:40 – 17:00 “Certification of Fuel Cells for aeronautical applications” by Mr Hansen (Airbus)

17:00 – 17:20 “DACAPO – The energy-autonomous cabin” by Mr Knepple (Diehl Aerospace)

17:20 – 17:40 “HYCARUS: Hydrogen powered Fuel cell System for non-essential cabin applications” by Mr Masset (Zodiac Aerotechnics)

17:40 Dinner and transport to the hotels

16 September 2015

8:00 – 8:30 ***Transport from the hotels and registration***

Session 2: Ground operations in commercial airports

- 8:30 – 8:50 “Hydrogen, Fuel cells and Electric Mobility at German Airports” by Mr Axthammer (NOW)
- 8:50 – 9:10 “Hydrogen Storage on board aeronef and ground infrastructure” by Mr Bensadoun (Air Liquide)
- 9:10 – 9:30 “Fuel Cells Tow Trucks” by Mr Esser (Mulag)
- 9:30 – 9:50 “Green Ground Support Equipment” by Mr Decoux (TLD Group)
- 9:50 – 10:10 “SILYZER 200, MW-Class PEM Electrolysis developed by Siemens” by Mr Wolff (Siemens)

10:10 – 10:30 ***Coffee break***

Session 3: Fuel Cell Propulsion System

- 10:30 – 10:50 “Enhanced Model-based Development and Virtual Testing of Complex Fuel Cell Systems in Future Aircraft” by Mr Grymlas (Hamburg University of Technology)
- 10:50 – 11:10 “Fuel Cells in Unmanned Aerial Vehicle – research perspectives” by Mr Cozzolino (Piaggio)
- 11:10 – 11:30 “First flight worldwide powered 100% with hydrogen” by Mr Thevenot

Session 4: Financing

- 11:30 – 11:45 “How to finance projects via Cleansky 2 JU” by Mr Vecchio (Cleansky 2 JU)
- 11:45 – 12:00 “How to finance projects via FCH 2 JU” by Mr Delplancke (FCH 2 JU)
- 12:00 – 13:00 Round table discussion and next steps

13:00 ***Lunch***

14:00 – 16:00 Visit of the German Aerospace Center and its hydrogen facilities

16:00 ***Transfer to Stuttgart airport***

