Minutes meeting 28/11/2018 @ E-trucks Lommel

Present meeting:

André Beukers-Ben Cornelis (E-Trucks), Tim Maeyens (Terranova Solar), Denis Thomas (Hydrogenics), Maarten Van Haute (Q8), Nicolas Gielis (Fluxys), Jean-Paul Mossoux – Dimitri Van Den Borre (Tractebel), Koen Vlaeminck – Harrie Blondeel- Daniel Marenne (Engie), Philippe Tavernier (POM), Valon Pllana (Air Liquide), Hans Magits (Atlas Copco), Bart Goddyn (Aspiravi), Koen van den Brande (Polders Investeringsfonds), Kristof Vanhoorne (EDF), Ruud Bouwman (VDL), Michiel Jeremiasse (Suez), Marcel Meeus (Umicore), Nick Valckx (Agfa), Filip Van Den Abeele (OCAS/Arcelor), Isabel François (WaterstofNet).

Agenda:

10.00	**Cluster news and general info**
10.30	**Filip Van Den Abeele, Arcelor Mittal R&D/OCAS** **Hydrogen research, development and testing capabilities at OCAS**
11.00	**Andre Beukers, director of E-trucks-Europe:** **Activities and perspectives Hydrogen waste trucks**
11.30	**Tour in the factory**
12.00	**Lunch**

Presentations: see attachment

Remarks

General info cluster

- Workshops H2 mobility are planned for Antwerp & Leuven and are being planned for Gent & Brussels. These workshops will be held in Halle/Zaventem at an existing refuelling station.

  Remark: In West-Vlaanderen, there will be a workshop on short term, related to the plans of the POM to develop a hydrogen station in Roeselare. An info-session at an existing station, similar to those in Antwerp & Leuven, can be planned in a later stage.

  Also for Limburg, an exploration is running for the Ford site in Genk; a workshop in Genk was organised in September; a follow-up workshop with interested companies will be held in January.

OCAS presentation

- OCAS wants to collaborate with cluster partners in innovative projects.
- OCAS does research on interaction of H2 with materials but also with existing components; the latter is especially interesting for collaborations within the cluster

- Question: in literature a small fraction of O2 in the H2 could probably counteract interaction of H2 with steel? To be checked with specialists at Ocas.

E-trucks

- Focus on 30-tonnes vehicles for inter-city transport with high energy consumption
- Focus on 3-axle trucks
- Fuel cost already competitive with Diesel today:
    - 10kg H2 equivalent with 120l Diesel (for 100 km)
    - 100 € (at 10€/kg) versus 120€
- Total weight of a H2 truck is comparable to Diesel truck
- Current concept has relatively small fuel cell (30kW) and relatively large battery ; this ratio will change in the future; plan is to minimize battery capacity and increase FC capacity.