

Project Information

Subject: Development of an articulated bus with fuel cell-battery-supercaps – drive train



Project Partners: Vossloh-Kiepe GmbH, Düsseldorf
Hoppecke Batterietechnik GmbH, Brilon
Institute of Automation Engineering, Cologne University of Applied Sciences
Institute for Power Electronics and Electrical Drives, RWTH Aachen
funded by The Netherlands:
APTS bv, Helmond

Project Duration: May 2010- March 2014

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Project Description:

The project funded jointly by the EC, North Rhine-Westphalia and The Netherlands, deals with the development of an 18 m long articulated bus with a fuel cell triple hybrid drive train. The fuel cell system with a rated power of 150 kW together with batteries and supercaps will be able to generate a propulsion power of approx. 240 kW. This will allow a maximum speed of 80 km/h. The bus platform is coming from APTS, Helmond, are located in The Netherlands, the fuel cell system will be delivered by Ballard, Canada. Vossloh-Kiepe from Duesseldorf is responsible for the electrical equipment and the energy

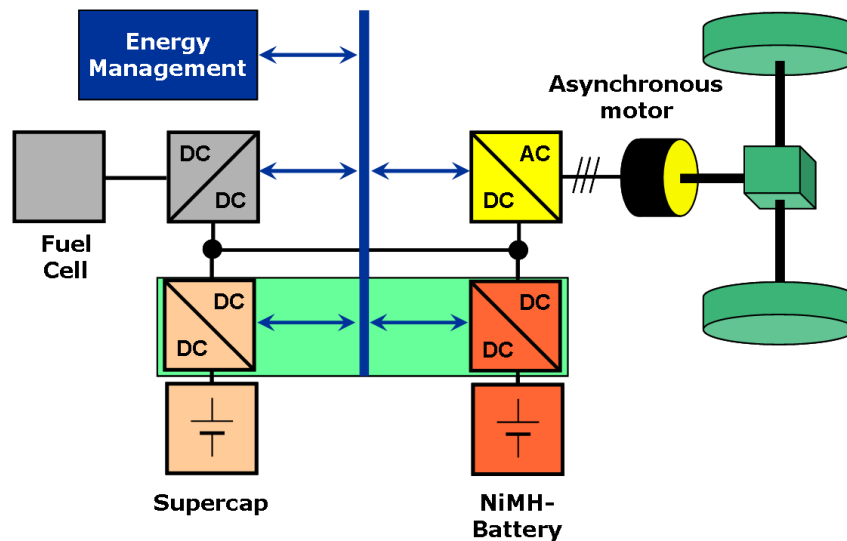


Funded by
the State of North Rhine-Westphalia and the EU



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management. Hoppecke Battery Technology GmbH develops the storage modul based on NiMH-batteries. The Institute of Automation Engineering at the Cologne University of Applied Sciences and Institute for Power Electronics and Electrical Drives at the RWTH Aachen work on the development and the simulation of the energy management and the storage concept. The first of in total 4 buses will be set in operation at bus companies in Cologne and Amsterdam in spring 2010.



Triple-Hybrid-Concept, Source: Prof. Lohner, FH Cologne



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