



Hydrogen Europe: European Hydrogen & Fuel cell Project Database

Project INN-BALANCE

INNovative Cost Improvements for BALANCE of Plant Components of Automotive PEMFC Systems

The aim of INN-BALANCE is to develop a novel and integrated development platform for developing advanced Balance of Plant components in current fuel cell based vehicles, in order to improve their efficiency and reliability, reducing costs and presenting a stable supply chain to the European car manufacturers and system integrators. Accordingly, INN-BALANCE technical objectives are (i) to develop highly efficient and reliable fuel cell BoP components; (ii) to reduce costs of current market products in fuel cell systems; (iii) to achieve high technology readiness levels (TRL7 or higher) in all the tackled developments; and (iv) to improve and tailor development tools for design, modelling and testing innovative components in fuel cell based vehicles. To this end, a European Consortium composed by major automotive companies, consulting groups, research institutes and universities was established. INN-BALANCE will be focused on four main general topics; first of all on new components developments, addressing the latest changes and trends in fuel cells vehicles technology, from new air turbo-compressor, anode recirculation/injection module and advanced control/diagnosis devices to new concepts of thermal management and anti-freeze units based on standard automotive components; secondly, on the vehicle integration and validation of the components in a TRL7 platform placed at a well-known car manufacturing platform; thirdly, providing innovative and cost optimized manufacturing processes especially developed for automotive BoP components; finally, on the results dissemination and exploitation, new technology broadcasting and public awareness of new, low-cost and reliable clean energy solutions in Europe bringing at the same time highly qualified new job opportunities.

Project Information

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European Union through FCH JU: [Grant agreement 735969 - CORDIS link](#)

Project partners

Coordinator :

FUNDACION AYESA

Partners :

[AVL](#)

[VOLVO PERSONVAGNAR AB](#)

[Powercell AB Sweden](#)

[DLR - German Aerospace Center](#)

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[Sub project\(s\)](#)

Sub project 1

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Sub project categories

Research

Project Id: 1024

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