

# HySYS

## Fuel cell hybrid system component development



### Objectives

- Improvement of fuel cell system technology for market readiness (functionality, reliability, cost, customer acceptance)
- Optimisation of system architecture for low energy consumption and high performance
- Optimisation of energy management
- Development of low cost mass market FC- & Drive Train components.
- Validation of component and system performance on two FC Vehicles (DC and PSA)
- Focus on components with real research needs and high cost reduction potential
- Standardisation as very important for cost reduction and European competitiveness (broad range of experience and expertise is involved)
- Identification of common architecture and modular design
- Focus is on FC systems, considering also components that can be used in ICE Hybrids
- Synergies with ICE-Hybrids

### Motivation

- Improvement of system components for FC-hybrid vehicles is necessary to meet all necessary requirements for mass production
- Involve supplier industry more deeply in FC- and ICE Hybrid component development by cooperation in a European project
- Close cooperation of car industry with suppliers is needed for a successful market introduction of FC-vehicles

### Achievements/ Results



Air Supply (ETC)



E-Motor



Battery module



Hydrogen Metering

### Additional information

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Project partners	Daimler, AVL, Bosch, CNM, Continental Temic, CRF, ENEA, EPFL, Fischer Precise, Fumatech, RWTH Aachen, Magna Steyr, MicroChemical, PSA, Rivoira, Saft, Selin Sistemi, ATB, TNO, Volvo, VW, University of Montpellier, University of Maribor, Renault, Fachhochschule Esslingen, NuCellSys, Eldor		