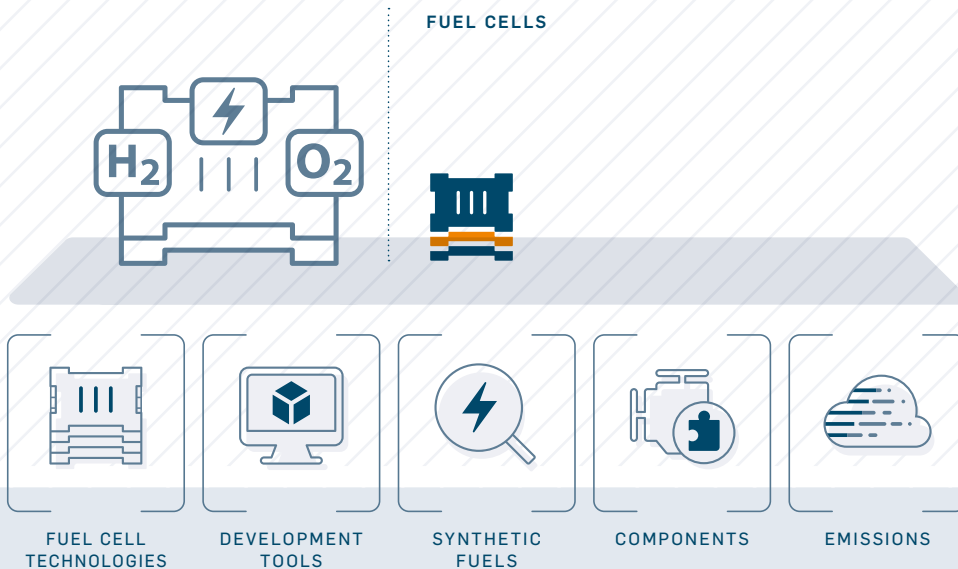


Fuel Cells

PLANNING GROUP 7



COORDINATOR

Dr. Volker Formanski,
BMW

PROJECT MANAGEMENT

Martin Nitsche, FVV

PG7 ONLINE



THEMIS

RESEARCH PRIORITIES

Planning group 7, ›Fuel Cells‹, is dedicated to the following topics:

- System integration of fuel cells in mobile/stationary applications
- Reduction of costs through innovative solutions
- Hydrogen compatibility

And tackles the following lines of research/focuses:

- Operating types and conditions of fuel cells
- Hydrogen compatibility, handling, material properties of hydrogen-carrying components
- Air path and filtering
- Thermal management
- Interfaces to the fuel cell and related components/units, e. g. compressors, expanders

PG 7 | RESEARCH PROJECTS



NO	TITLE // FUNDING ORGANISATION // DURATION	PROJECT COORDINATOR
Planned projects		
M0217	Innovative FC Air Supply // BMWi/AiF	Dr. Oliver Berger, Volkswagen
M0517	Simulation/Balance of Plant // FVV-EM	Stefan Rothgang, Pierburg
M0721	Minimally invasive Diagnostics for Liquid-water Morphology	Sarah Stadtler, AUDI
M0817	Integrated Fuel Cell Simulation // FVV-EM	Stefan Bohatsch, Volvo Car
M0921	Model Development of Fuel Cell PEM Membranes	Marius Zubel, FEV Europe
M1717	Simulation/Vehicle Hybridisation // BMWi/AiF	Dr. Thorsten Schnorbus, FEV Europe
M1917	Methodology for SoH Detection // BMWi/AiF	Richard Schauerl, AVL List
M2317	Fuel Cells Air Contaminations (Study) // FVV-EM	Markus Kersting, IAV
M2519	Cooling Fuel Cells II // BMWi/AiF	Dr. Markus Kaiser, nexiss
M4120	Cleaning of Dielectric Cooling Fluids	Dr. Michael Harenbrock, MANN+HUMMEL
Ongoing projects		
1406	Energy Recovery in Fuel Cell Applications // FVV-EM // 01-09-2020 to 31-08-2022	Dr. Dirk Jenssen, Volkswagen
1411	FC Cold Start // FVV-EM // 01-09-2020 to 31-08-2022	Dr. Stefan Kaimer, Ford-Werke
Completed projects		
1295	Cathode Air Quality Requirements for LT-PEM Fuel Cells // FVV-EM // 15-01-2018 to 31-12-2020	Dr. Michael Harenbrock, MANN+HUMMEL
1298	Fuel Cell System Simulation – Membrane Water Management // FVV-EM // 01-01-2018 to 31-01-2020	Dr. Helge Tielborger, Siemens Industry Software
1362	Corrosion Products and Contaminations in the Fuel Cell Hydrogen System // FVV-EM // 01-08-2019 to 31-12-2020	Dr. Christian Lucas, Volkswagen
1366	Generic Fuel Cell Stack // FVV-EM // 01-09-2019 to 30-06-2020	Dr. Jan Haumann, Schaeffler Technologies