

## References – Examples

### Consulting

Support in the development of a fuel cell-based UPS infrastructure for telecommunications equipment

**Customer:** Telecommunications technology service provider

Support with legislation, codes and standards for H<sub>2</sub> storage systems

**Customer:** Automotive group

Consulting on the specific requirements of air conditioning and heating in electric vehicles

**Customer:** Automotive group

### Engineering

Design of a desulphurisation unit for stationary, natural gas-powered fuel cell systems

**Customer:** Plant engineering company

Simulation and design of off-grid residential energy systems with hydrogen storage

**Customer:** Construction company

### Project Management

Technical project management and interface coordination of off-grid energy systems

**Customer:** Systems integrator

### Service

Maintenance, data and fault analysis of fuel cell systems in use by customers and preparation of fault and test reports

**Customer:** Fuel cell manufacturer

Maintenance and repair of electric drives of fuel cell buses in everyday use

**Customer:** Bus manufacturer

### EMCEL GmbH

Brüsseler Str. 85

50672 Cologne

Germany

+49 (0)221 299 319 29

[www.emcel.com](http://www.emcel.com)

[welcome@emcel.com](mailto:welcome@emcel.com)

# EMCEL

Engineering Company for Fuel Cells  
Hydrogen Technology and Electric Mobility



## About Us

We are a Cologne, Germany based engineering company. We offer comprehensive engineering services in the fields of fuel cells, hydrogen technology and electric mobility.

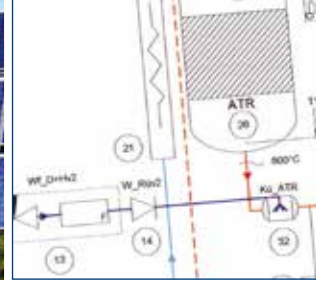
Our key areas are safety, engineering and maintenance of fuel cell systems.

... to ensure your fuel cell runs safely!

## Services and Mission Statement

We believe fuel cell technology to be applicable in many sectors, finding implementation wherever electric energy and new ideas are required. That is why we deliver a broad range of services in:

- >> Consulting
- >> Engineering
- >> Project Management
- >> Service and Maintenance



DIN IEC  
UNECE  
ISO SAE  
(EG)



## Consulting

Take advantage of many years of experience in fuel cell and hydrogen technology!

### You

- >> are seeking relevant regulations and legislation for the standard-compliant development or approval of your products?
- >> are considering what the benefits of fuel cell systems could be for you and, if appropriate, are seeking the ideal system?
- >> have mission-critical power consumers in your operation that you wish to protect?

### We

- >> will research and filter the relevant standards and legislation for you and your product development team.
- >> will test and track compliance with target specifications, from the planning phase through to the certified product.
- >> will analyse the possibilities and benefits offered by fuel cell systems in your company.

## Engineering

Take advantage of our knowledge and expertise for the design and development of your components and systems!

### You

- >> are looking for experienced developers to design components and systems?
- >> would like to optimise your system components?
- >> would like to learn more about the internal correlations of fuel cell systems or check the metrological interrelationships of your systems?

### We

- >> offer solutions for fault and data analysis with the aim of increasing system availability.
- >> will model energy systems and draw conclusions from this relating to the actual behaviour of your system.
- >> will recommend components and systems to meet your needs based on independent market research of manufacturers.

## Project Management

We can take the pressure off you in the day-to-day operation of your project through support and organisation!

### You

- >> need a coordinator to act as an interface to your supplier; one who is familiar with the details of the technology?
- >> are seeking an expert to look after non-standard projects and work in the field of fuel cell technology?
- >> want an independent body to review and document the progress of your particular project?

### We

- >> will coordinate with you and ensure that your projects run seamlessly by adhering to your processes.
- >> will also keep you up to date with information about the progress of your project.
- >> deliver clearly presented results for further work – even if we are no longer on board.

## Service

Take advantage of the extensive experience of our accomplished team in servicing fuel cells and electric vehicles!

### You

- >> would like to outsource the servicing of your ever-growing fuel cell fleet, as your expertise lies in development and sales?
- >> wish to offer your customers special support for specific repairs?
- >> would like to improve availability and find a partner who efficiently organises the service of sub-systems and comprehensively analyses faults?

### We

- >> will take care of the service of your products in the field after being instructed in your system.
- >> will take over the entire service chain, from fault analysis to spare parts management.
- >> will produce on schedule, on your behalf, detailed reports on the use of your vehicles or other applications.