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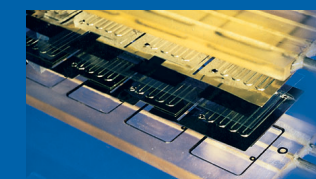
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# European Portable Fuel Cell Study

The first expert study on portable fuel cell technologies in Europe

w w w . h 2 r e p o r t . c o m



# European Portable Fuel Cell

An evaluation of the status of portable FC technology and a comprehensive overview of the market, its players, R&D, projects, and financing in the European Union.



## Added Value

The European Portable Fuel Cell Study for the first time gives a comprehensive overview of the technologies, players and market conditions in Europe. Data from interviews with the experts in research, manufacturing and systems integration provide the basis for an evaluation of the state-of-affairs in portable fuel cell R&D, and an analysis of opinions and trends. The study weighs the pros and cons of different technologies and gives an in-depth review of possible applications. The focus on Europe includes an overview of the financing possibilities and a directory of suppliers. The European Portable Fuel Cell Study offers hands-on data with critical and thought-provoking analysis.

## Contents

**Overview:** state of technology, visions, strategies, market - **Technologies:** PEM, DMFC, SOFC, AFC, fuels (reforming, storage, safety, logistics), fuel cell alternatives, costs - **Legal framework:** European law, rules and regulations, certification - **Players:** initiatives, networks, companies, R&D - **Applications:** UPS, APU, mobile power supply, consumer markets, military - **Financing:** banks, venture capitalists, government support (EU, national, regional) - **Statistical data:** volume of investment, number of people involved, technology trends, market trends - **Appendix:** suppliers directory, list of interviewed experts.

## About the Partners:

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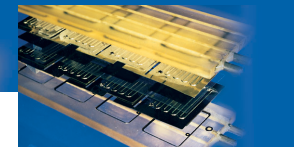
As a representative of the European Union and the Federal Government of Germany, we support the economically successful use of future technologies such as fuel cell technologies. We encourage and aid the creation of new fuel cell companies starting from the initial idea to the acquisition of venture-capital. Our services include studies involving technologies, markets, strategies for corporate finance departments, initial public offerings, as well as economic and technical due diligence.

www.fuelcellnet.com

www.hydrogenexpo.com

### Freesen & Partner

Based on our expertise in the environment and energy sector we provide services to innovative companies including strategic consulting, public relations and marketing support. In 2001, we successfully launched Hydrogen Expo in Hamburg, Germany. Now in its 3rd successful year, Hydrogen Expo has become Europe's largest and most important trade show and seminar forum for H2/FC technologies. In 2003, we brought Hydrogen Expo USA to Washington DC to provide a networking forum in North America for the international H2/FC research and industry.



### Fraunhofer ISE

The Fraunhofer Institute for Solar Energy Systems ISE is the largest institute in Europe for applied research and development in the field of solar energy conversion. One focus of our activities is hydrogen technology which comprises hydrogen production by means of fuel cells. We develop complete fuel cell systems for power supply of portable appliances such as camcorders, laptops and dive-independent power boxes. Within the Fraunhofer Initiative „Micro Fuel Cells“ we cover all aspects from simulation and characterization of stacks to the system control as well as to materials and production technology.

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