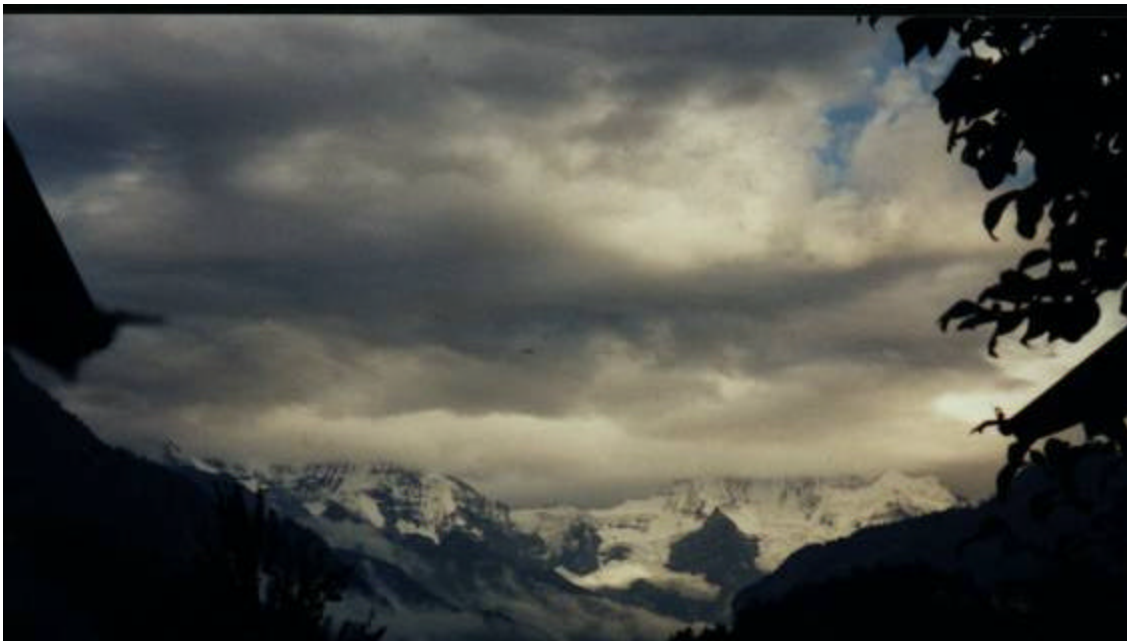


**Fuel Cells For Vehicles Market Opportunities and
Forecasts,
2005 to 2011**

Fuel Cells For Vehicles Market Assessment



Picture by Susie Eustis

MAKING THE DRIVE TO THE TOP

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Lexington, Massachusetts**

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Fuel Cells For Vehicles Market

Opportunities And Forecasts, 2005-2011

OPPORTUNITY ABOUNDS

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Global demand for vehicles using alternative fuels is expected to be 170,000 units by the year 2002 up from 16,900 units sold in 2001. Fuel cells will replace all alternative fuels by 2005. Fleet vehicle markets will evolve first.

Vehicle fuel cell markets at \$40.5 million in 2005 represent the beginning of commercial introduction of cars that use fuel cell systems. Markets are expected to reach \$8.5 billion by 2011.

Commercialization challenges for the automotive fuel cell industry relate to making vehicle fuel cells cost competitive with existing gasoline engines. The most difficult challenges are low-cost infrastructure, range, and power density. Other challenges include cost reduction, component integration complexity reduction, and increasing safety.

Companies Profiled

Allied Utility Network
Altair Technologies
Ballard Power Systems
Ceramic Fuel Cells Limited
Dais Analytic
DaimlerChrysler
Duracell

Energizer
Energy Partners Ltd
Engelhard Corporation
Evonyx's Evictory
Ford
FuelCell Energy
GreenVolt Power
H Power Corp
Honda
Hydrovolt Energy
IdaTech
Impco
International Fuel Cells / United Technologies
Johnson Controls / Optima Batteries
Manhattan Scientifics Inc
Medis Ethanol Fuel Cell
Metallic Power
Millennium Cell
Mitsui
Niagara Mohawk Power Corporation
Nuvera
Plug Power Fuel Cell
PowerTek
Proton Energy Systems
Rayovac
Schatz Energy Research Center
Teledyne
Texaco
Toyota Fuel Cell Cars
Trojan Battery
Ultralife Batteries
Xcellsis
Zevco

Fuel Cells For Vehicles Market Opportunities and Forecasts, 2005-2011

REPORT METHODOLOGY

THIS IS THE HUNDRED AND THIRTIETH REPORT IN A SERIES OF MARKET RESEARCH REPORTS THAT PROVIDE FORECASTS IN COMMUNICATIONS, TELECOMMUNICATIONS, THE INTERNET, COMPUTER, SOFTWARE, AND TELEPHONE EQUIPMENT. THE PROJECT LEADERS TAKE DIRECT RESPONSIBILITY FOR WRITING AND PREPARING EACH REPORT. THEY HAVE SIGNIFICANT EXPERIENCE PREPARING INDUSTRY STUDIES. FORECASTS ARE BASED ON PRIMARY RESEARCH AND PROPRIETARY DATA BASES. FORECASTS REFLECT ANALYSIS OF THE MARKET TRENDS IN THE SEGMENT AND RELATED SEGMENTS. UNIT AND DOLLAR SHIPMENTS ARE ANALYZED THROUGH CONSIDERATION OF DOLLAR VOLUME OF EACH MARKET PARTICIPATION IN THE SEGMENT. INSTALLED BASE ANALYSIS AND UNIT ANALYSIS IS BASED ON INTERVIEWS AND AN INFORMATION SEARCH. MARKET SHARE ANALYSIS INCLUDES CONVERSATIONS WITH KEY CUSTOMERS OF PRODUCTS, INDUSTRY SEGMENT LEADERS, MARKETING DIRECTORS, DISTRIBUTORS, LEADING MARKET PARTICIPANTS, OPINION LEADERS, AND COMPANIES SEEKING TO DEVELOP MEASURABLE MARKET SHARE. OVER 200 IN DEPTH INTERVIEWS ARE CONDUCTED FOR EACH REPORT WITH A BROAD RANGE OF KEY PARTICIPANTS AND INDUSTRY LEADERS IN THE MARKET SEGMENT.

YOU MUST HAVE THIS STUDY

**Fuel Cells For Vehicles Market Opportunities and
Forecasts,
2005 to 2011**

Fuel Cells: Market Opportunities And Forecasts, 2005-2011

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ABOUT THE COMPANY

WINTERGREEN RESEARCH, FOUNDED IN 1985, PROVIDES STRATEGIC MARKET ASSESSMENTS IN TELECOMMUNICATIONS, COMMUNICATIONS EQUIPMENT, HEALTH CARE, AND ADVANCED COMPUTER TECHNOLOGY. INDUSTRY REPORTS FOCUS ON OPPORTUNITIES THAT WILL EXPAND EXISTING MARKETS OR DEVELOP MAJOR NEW MARKETS. THE REPORTS ASSESS NEW PRODUCT AND SERVICE POSITIONING STRATEGIES, NEW AND EVOLVING TECHNOLOGIES, AND TECHNOLOGICAL IMPACT ON PRODUCTS, SERVICES, AND MARKETS. MARKET SHARES ARE PROVIDED. LEADING MARKET PARTICIPANTS ARE PROFILED, AND THEIR MARKETING STRATEGIES, ACQUISITIONS, AND STRATEGIC ALLIANCES ARE DISCUSSED. THE PRINCIPALS OF WINTERGREEN RESEARCH HAVE BEEN INVOLVED IN ANALYSIS AND FORECASTING OF INTERNATIONAL BUSINESS OPPORTUNITIES IN TELECOMMUNICATIONS AND ADVANCED COMPUTER TECHNOLOGY MARKETS FOR OVER 30 YEARS.

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