

Directory and Company Profiles - Fuel Cells, Hydrogen Energy and Related Nanotechnologies

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Abstracts

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This directory is a companion to the iRAP report, EN-103: Fuel Cells, Hydrogen Energy and Related Nanotechnology – A Global Industry and Market Analysis.

As noted in the report, more than 3,870 organizations are involved in fuel cell technology, hydrogen as an energy source and related nanotechnology. Of those, more than 2,180 organizations are involved in nanotechnology related to fuel cells and hydrogen energy and will spend a total of \$4.7 billion for fuel cells and hydrogen energy incorporating nanotechnology. Of that \$4.7 billion, about \$2 billion in 2008 expenditures, or 24% of the total spending, represents the value of nanotechnology for fuel cells and hydrogen energy separate from all other expenditures.

This directory provides profiles of more than 800 companies, government organizations and universities involved in commercializing fuel cells, hydrogen energy and related nanotechnology. The information is drawn from their websites, press releases, media stories, annual reports, conference presentations, filings with the U.S. Securities and Exchange Commission, and reports to the U.S. Department of Energy and other Federal agencies, as well as reports to various U.S. states and reports to various agencies in European and Asian governments. Some profiles are the result of foreign language translations of public information. Languages from which some profiles were translated include French, German, Italian, Polish, Spanish, Swedish, Russian, Chinese, Japanese and Korean.

The companies and organizations profiled were selected for their leadership positions in sales and technology related to fuel cells, hydrogen energy and related nanotechnology, as well as those companies that are major material providers to the fuel cell industry. Companies and organizations were also chosen for their nanotechnology contributions to the fuel cell and hydrogen energy industries.

The directory is divided into four broad sections. The first section covers companies primarily involved in proton exchange fuel cells (PEMFC), direct methanol fuel cells (DMFC) and other low temperature fuel cells. The second section covers high temperature fuel cell companies involved in solid oxide fuel cells, molten carbonate fuel cells and phosphoric acid fuel cells. The third section provides profiles of companies involved in providing hydrogen and other fuels for fuel cells. The fourth section covers other companies such as those that provide the balance of plant apparatus and materials. This section is the smallest, as the focus is on those companies with involvement in both nanotechnology for fuel cells and hydrogen energy.

Within each section, the companies are arranged in alphabetical order, with a brief subtitle following the company or organization name to provide, at a glance, the chief activity with regard to fuel cells, hydrogen energy and related nanotechnology. Organization addresses, telephone and fax numbers, email contact and Websites are provided for most of the companies.

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DMFC Developer
Catacel Corporation
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CCR GMBH Beschichtungstechnologie
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PEMFC Developer 100w-5kw
Century Inc.

Manufacturer Bipolar Plate
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Nanotechnology Ruthenium Catalyst
China Ministry of Science & Technology (MOST)
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China Shipping Corporation
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Deutsches Zentrum für Luft- und Raumfahrt E.V. (DLR)
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Fuel Cell Delivery Vehicle Testing
esl Electrosience
Sofc Materials and Meas
E-tek
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European Aeronautic Defence and Space Company Eads N.v.
PEMFC Aviation Auxiliary Power
European Hydrogen & Fuel Cell Technology Platform Secretariat
Fuel Cell R&D Sponsor
European Institute for Energy Research (EIFER)
PEMFC and Sofc R&D
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PEMFC Manufacturer 1kw-5kw
Faam SPA
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Developer of Nano Cathode Catalysts for Fuel Cells
Fuel Cell Test and Evaluation Center (FCTEC)
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Mcfc Materials Manufacturer and Developer
Force Technology
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Freudenberg Fuel Cells Component Technology kg (FCCT)
Gdl, Seals, Humidifiers, Filters
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Bipolar Plate Manufacturer
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Fuelcell Solutions Ltd
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Sofc Developer
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PEMFC 10w-2kw Manufacturer
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DMFC Integrator for Portable Electronics
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Ministry of Economy, Trade and Industry
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Mintek/project Autek/
Nanoparticulate Gold for H₂ Production
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Mitsubishi Pencil Co., Ltd.
DMFC Bipolar Plate Manufacturer
Mitsubishi gas Chemical Co., Ltd.
DMFC Nanotechnology
Mitsubishi Heavy Industries
PEMFC Reformer Manufacturer
Miyazaki University & Kansai University
Nano pt Catalyst, Nanotubular Polymer Electrolyte
Monash University
Nano Pt/c Catalyst for PEMFC
Morphic Technologies AB
PEMFC & H2 Production
Motorola
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Mcfc & PEMFC
N2telligence GMBH
Fire Preventing Fuel Cell
Nagasaki Institute of Applied Science
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Nano-carbon Material
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Nakajimakinzoku Co., Ltd.
Nanoplatinum for Electrodes
Nanocell Systems
Miniaturized SOFC
Nanoclay and Technologies, Inc./atlas Mining CO
SOFC Nanomaterials
Nanocyl S.A
Production of Nanotubes

Nanodynamics

Single, Double, and Multi-wall Carbon Nanotubes

Nanodynamics Energy, Inc.

Micro SOFC Developer & Manufacturer

Nano Fusion Technologies, Ltd.

Electro-osmotic Pump for Micro DMFC

Nanolab

Commercial Source of Carbon Nanotubes

Nanoledge

Carbon Nanotube Manufacturer

Nanomaterials Discovery Corporation

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Nanopower Research Labs

Cnts for PEMFC Catalysts

Nanoproducts Corporation

Polymer Nanotechnology

Nanoquest Pty Ltd

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Nanosys, Inc.

Nanowires & Nanocatalysts for DMFC

Nanotek Instruments, Inc.

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Nanotek Instruments, Inc.

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Nanothinx

Carbon Nanotube Manufacturer

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Nanotek Instruments, Inc.,

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Nano-tek (uk) Technology Ltd

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National Research Council of Canada (NRC)

Hydrogen on Demand W-kw

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National Institute for Material Science
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National Chemical Laboratory
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nsc Technology
Development of Fuel Cell Cathodic Catalysts: Multimetallic Alloy Nanoparticles
Nucellsys GMBH
Manufacturer of PEMFC for Vehicles
Nuvant Systems, Inc.
Nano PEMFC Cathode Catalyst for High Temp Membrane
Nuvera Fuel Cells
PEMFC Manufacturer
Ohio Department of Development/third Frontier Fuel Cell Program (TFFCP)/
State Funding to Spur Fuel Cell Industry
Osaka gas
PEMFC Major Developer
PEMFC Major Developer (continued)
Ovonix Fuel Cell Company LLC
Metal Hydride Fuel Cell
Oxford Performance Materials
PEMFC Nanomaterials Manufacturer
Pacific Fuel Cell Corporation
Nanotechnology to Manufacture Fuel Cells
Pacific Northwest National Laboratory
Pt and Pt-Ru/carbon Nanotube Nanocomposites
Palcan Fuel Cells
PEMFC Manufacturer 100W-5kW
Pan Asia Technical Automotive Centre
PEMFC for Vehicles
Paxitech SAS
PEMFC Manufacturer
Pemeas Fuel Cell Technologies/BASF Fuel Cell, Inc.
MEA and Catalyst Manufacturer
Pennsylvania Nanomaterials Commercialization Center
Nanomaterials for PEMFC Electrodes
Plug Power

Major PEMFC Manufacturer, Fuel Cell Catalyst Nanostructures
Polish Hydrogen and Fuel Cell Technology Platform
PEMFC, SOFC & H2 Research & Development
Polyfuel
Nano-engineered Membranes and DMFC
Porvair Fuel Cell Technology
PEMFC Materials Manufacturer
Powergen UK PLC
Fuel Cell chp Developer
Powercell
PEMFC Manufacturer
Precision Materials, Inc.
Novel Nanoscale Intermetallic Fuel Cell Catalyst Materials and Processing
Precision Compliant Systems Laboratory (PCSL)
Fuel Cells for Portable Electronics R&D
Precision Micro Ltd /microponents Ltd
Supplier of Fuel Cell Components
pro Motors Group Corp.
PEMFC Vehicle Demonstration
Proton Energy Systems, Inc.
pem for Hydrogen Generation
Proton Motor Fuel Cell GMBH
PEMFC Manufacturer
Proton Power Systems PLC
Proton Motor Fuel Cell (german Subsidiary)
PEMFC Manufacturer
Protonex
DMFC & SOFC Manufacturer
Prototech
SOFC Materials Developer
Qinetiq
PEMFC and SOFC Developer
Quantumsphere, Inc.
Non-platinum Nanocatalyst
Quintech
PEMFC, SOFC, DMFC and Components
Relion
PEMFC Manufacturer 600w-15kw
Rensselaer Polytechnic Institute (rpi)

Nanomaterials for PEMFC & H2 Production

Rice University

new Class of Tubular Carbon Molecules

Rice University-nanotechnology Deemed Best Long-term Energy Alternative

rbz Riesaer Brennstoffzellentechnik GMBH

PEMFC Developer

Reinz-dichtungs-GMBH

Bipolar Plate Manufacturer

Ricardo UK LTD

Fuel Cell Vehicle R&D

Riken Venture System

Self-organizing Nano-membrane for Fuel Cells

Riso National Laboratory for Sustainable Energy

Nano Clays in Polybenzimidazole for High Temp PEMFC Membrane

Rittal GMBH & CO. kg

PEMFC Manufacturer

Rogers Corp.

PEMFC 20w-5kw

Rolls-royce Fuel Cell Systems, inc

High-pressure Stack Block Test System

Saati Group/ Seal S.P.A

PEMFC gas Diffusion Electrodes, Catalyst-coated Membranes

Saitama Institute of Technology

Nanotechnology AU, RU & PT Catalyst

Samsung Electro Mechanics

Nanotechnology for DMFC

Samsung sdi CO. Ltd.,

Fuel Processor for PEMFC

Sandia National Laboratories and University of new Mexico

Photosynthetic Proteins Manipulate Platinum at the Nanoscale

Figure 1 Platinum-lace Nanoballs

Figure 2 Transmission Electron Microscope Image of the Platinum Nano-koosh Balls

Sanyo Electric Co., Ltd.

Carbon Nano-onion Catalyst for DMFC

Sanyo Electric Company

PEMFC Developer

Sarnoff Corporation

Nanotube Catalysts for PEMFC

Sartorius AG

MEA & Ht-pemfc Stacks
Schunk Kohlenstofftechnik GMBH
PEMFC Stacks, Systems and Bipolar Plate Manufacturer, 27w-1.4kw
Science Labs, Inc.
Fullerene Production Method
Sekisui House Co., Ltd.
PEMFC Demonstrator
Seoul National University
Nanomaterials for Fuel Cells
SFC Smart Fuel Cell AG
PEMFC Manufacturer
PEMFC for Military Applications
Sharp
Nanostructure Technology for DMFC
sgl Carbon
gdl Manufacturer
Shandong Dongyue Group
Pfsa Membrane Manufacturer
Shanghai Pearl Hydrogen
PEMFC Manufacturer
Shanghai Shen-li High Tech CO. Ltd
PEMFC Manufacturer 0.1 Kw-150 kw
Shanghai Fuel Cell Vehicle Powertrain Company
PEMFC Integrator for Vehicles
Shanghai-shen Li-pemfc Manufacturer 3-10 kw
PEMFC Manufacturer 1kw-150kw
Shanghai Yung-qiang Technology
PEMFCs for Marine use
Siemens
PEMFC and SOFC Manufacturer
SOFC and PEMFC Major Manufacturer
Siemens Power Generation
SOFC Major Manufacturer
Sigen Ltd
Fuel Cell Design, Engineering and Installations
Shanghai Forever Company
PEMFC Bicycle
Shanghai Giant & Phoenix Bicycle
PEMFC for Bicycles and Wheelchairs

South-north Institute for Sustainable Development
PEMFC Vehicle R&D
South West Electrolysers
Electrolyzer Technology
Showa Denko K.K.
PEMFC Component Manufacturer
Snecma, Safran Group
pem Fuel Cells for Space Applications
Space Plasma, Power and Propulsion
Plasma Processing Platinum Nanoparticles for gdl
Song-sing Nanotechnology Co., Ltd.
Nanocatalyst Manufacturer: RU.PD.PT.AU.AG
Sony Corporation
Nano-carbonaceous Waterless PEMFC
Sony Corp. Nanotechnology DMFC
South West Electrolysers
Water Electrolysis
Southwest Nanotechnologies Inc.
Carbon Nanotube Fuel Cell Catalyst
Sporian Microsystems, inc
Micro-electromechanical Systems (mems) Sensor Suite
Stmicroelectronics NV
DMFC Manufacturer
Sumitomo Metal Industries, ltd
Bipolar Plate Manufacturer
Sungkyunkwan University
Nanochannel Membranes
Superprotonic, Inc.
Nanomaterials for Solid Acid Fuel Cell
Surrey Nanosystems
Nanocatalysts
Suzhou Small Antelope Electric Bicycle Company
PEMFC Bicycles
Suzuki Motor Corp.
DMFC Wheelchair
Symyx Technologies, Inc.
Multi-metal Nano Fuel Cell Catalyst
Tae-gu City gas
PEMFC Demonstrator

Tages Industry & Information Technologies RDI S.A.
Business Incubator for Fuel Cells and H2 Technologies
Taiyo oil
PEMFC Installer
Taiyo Kagaku Co., Ltd.
Membrane Nanotechnology
Tanaka Kikinzoku Kogyo K.K.
PEMFC Electrocatalyst for mea
Tata Motors
PEMFC Buses
Technical University of Berlin
PEMFC for Helicopters
Techdrive, Inc.
PEMFC Polymer Electrolyte
Teledyne Energy Systems
PEMFC Manufacturer
Texas A & M
Bi-metallic and Tri-metallic Nanoparticles
T/J Technologies, Inc.
Nanocomposite Electrode Materials
Toho gas CO. Ltd.
PEMFC Major Installer, SOFC Developer
Tokai University
Nanotechnology Bipolar Plate
Tokuyama Corporation
Hydrocarbon Electrolyte Membrane for DMFCs
Tokyo gas
Major PEMFC Installer
PEMFC Developer and Installer
Tokyo Institute of Technology
Hydrocarbon Electrolyte Membrane
Micro Hollow Fibers for PEMFC Electrolyte
DMFC Development
Tokyo University
Nanotechnology DMFC
Tokyo University of Science-microtechnology
Mems Manufacturing Technology for Fuel Cells
Rupdo Cathode Catalyst
Tongji University

PEMFC R&d, Vehicle Integration
Toray Corp.
Hydrocarbon Electrolyte for PEMFC
Toshiba
Nanomaterials for DMFC
Toshiba Fuel Cell Power Systems
PEMFC Major Manufacturer
Tottori gas
PEMFC Demonstrations
Toyohashi University of Technology
Nanotechnology for Conductive Membranes of Phosphorus Wolframate
Toyota Jidosha Kabushiki Kaisha
Nanosize Pores in Polymer Electrolyte
Tropical S.A.
H2 Storage, Electrolyzers, Fuel Cells 1kw-20kw
Trulite
DMFC Manufacturer
Tsinghua University
PEMFC Development for Vehicles
Turk Demirdokum Fab. A.S.
Bipolar Plates, Mea, Catalysts, PEMFC Stacks
Tsinghua University
Nano-sio2 for PEMFC Membrane
Uchicago Argonne, LLC
Nanoscale Polymers for DMFC Membrane
Ultra Cell
DMFC Manufacturer
Umicore AG & CO. kg
Meas Using Nanosized Catalyst-coated Membranes
Unidym
Largest Manufacturer of Carbon Nanotubes
United Technologies Research Center
Catalyzed Nano-framework Stabilized High Density Reversible Hydrogen Storage Systems
Catalyzed Nano-framework Stabilized High Density Reversible Hydrogen Storage Systems (continued)
Universidad de Zaragoza
Zeocell-high Temperature PEMFC Project
University of Alabama

Nanostructured Catalysts for Fuel Cells
University of California
Nano Filler Oxides for Hybrid pem Membrane
University of California Riverside
Carbon Nanotubes for Fuel Cells
University of Cambridge
Carben Project: Nanotubes for High Surface Area PT/RU Catalysts
University of Houston
De-alloyed Pt-m Nanoparticle Electrocatalysts
University of Illinois
PEMFC orr Catalysts
University of Illinois Center for Nanoscale Science and Technology
Nano-flow, Surface Recognition, Enzyme Catalysis
University of Illinois at Urbana-champaign,
Nanoporous Silicon Membrane Based Micro Fuel Cells
University of Puerto Rico at Mayaguez, US
Synthesis of pt Nanostructures for Miniaturized DMFCs
University of Queensland Nanomaterials Centre
Nanomaterials, Nanowires for PEMFC and SOFC
University of South Australia
Molecular Wiring of Catalytic Nanoparticles
University of South Carolina, Center for Fuel Cells
PEMFC and H2 R&D
University of Tennessee, Knoxville
Nanostructured Catalysts for PEMFC
University of Tokyo and Toyota Motor Corp
Nanotechnology for Electrode
University of Western Ontario
Nanowire Supported Catalysts for Fuel Cell Electrodes
University of Wisconsin-madison & University of Maryland
Nanoparticle of Ruthenium/platinum for H2 Purification
Nanoparticle of Ruthenium/platinum for H2 Purification (continued)
Vaillant Group
60 PEMFC Demonstration Units
Viessmann Unternehmensgruppe
PEMFC 2kw Developer
Viaspace Inc.
DMFC Developer
Volkswagen

pem High Temperature Fuel Cell
Voller Energy Group PLC
PEMFC and DMFC Manufacturer
Wilhelm Eisenhuth GMBH kg
Bipolar Plates
Wuhan University of Technology
Nanostructured Silicon for Membrane
Wuhan wut new Energy CO. Ltd.
Wuhan Science and Engineering Co., ltd
PEMFC mea Manufacturer
Yokohama National University
PT Free air Cathode for DMFC
Zebotec GMBH
PEMFC for Boats & Stationary Systems, Integrator
Zeep Energy ltd
400w PEMFC for Bicycles
Zentrum Fuer Brennstoffzellen Technik (zbt)
PEMFC for Boats 300w APU
Zhejiang University Science Park Development Company
H2 Storage
Zhongshan University/ sun Yat-sen University
PEMFC Research and Development

SOLID OXIDE FUEL CELL (SOFC) COMPANY PROFILES

Acumentrics
SOFC Systems Manufacturer
Hybrid Ceramic/metallic Recuperator for SOFC Generators
Advanced Ceramics Ltd.
Albany Nanotech
Nanotechnology for PEMFC, SOFC & H2 Sensors
Altair Nanotechnologies inc
Nanomaterials for SOFC & H2 Storage
American Elements
Nanomaterials for SOFC MEA
Nanomaterials for SOFC MEA (continued)
Table 2 American Elements Products for SOFC
Ansaldo Fuel Cells S.r.l. (afco)
Mcfc Fuel Cells

Adaptive Materials, inc
SOFC Manufacturer 20w-250w
Adelan Ltd.
SOFC Developer
Alpps Fuel Cell Systems GMBH
SOFC Manufacturer, Portable
Arcomac Surface Engineering, llc
Nanostructured Coating for SOFC Interconnect
Ascent Power Systems
SOFC Manufacturer 20w-5kw
Aspen Products Group, Inc.
SOFC 10kw Logistics Fuel Reformer
BMW
SOFC Vehicle Auxiliary Power
Boreskov Institute of Catalysis
Scalable Propane Reformer for SOFC
btu International
SOFC Manufacturing Equipment
Celltech Power llc
SOFC Manufacturer 100w-mw, Liquid tin Anode, Nanotechnology
Ceramic Fuel Cells Limited
SOFC Major Manufacturer 1kw
Ceram Research
SOFC Developer
Ceramatec, Inc.
Nanopowders for SOFC
Ceres Power Ltd.
SOFC Manufacturer 1kw-25kw, CHP
Cerion AG
Micro SOFC Developer
Cathay Advanced Materials
SOFC Materials Manufacturer
Changchun Institute of Applied Chemistry
H2 Storage
China Association for Hydrogen Energy
H2 R&D
cmr Prototech as/ BKK Fuel Cell
SOFC Developer
Central Electric Power Research Institute (cepri)

Silver Nanoparticles for SOFC, R&D
Coorstek
SOFC Components, Major Manufacturer
Cummins Power Generation
SOFC Vehicle Auxiliary Power
Cutec-institut GMBH
SOFC R&D
DEK
Precision Screens for PEMFC and SOFC Manufacture
Delavan
SOFC Fuel Injection Devices
Delphi Automotive Systems
SOFC 3kw -10kw Stationary and Transportation
Digital Sofcell
SOFC Developer
Drayton Beaumont Kilns Ltd
Kilns for SOFC Manufacturing
Eltron Research
SOFC Reformer
EBZ GMBH
SOFC Manufacturer 1kw-50kw
Enerday GMBH
SOFC Developer
esl Electro-science
SOFC Tapecasting
Fabrique Research
SOFC Hollow Electrodes Loose Plates
Fine Ceramics Association
Nanotechnology SOFC
Forschungszentrum Julich GMBH
SOFC Research
Franklin Fuel Cells
SOFC Developer
Fuel Cell Energy, Inc.
SOFC 3kw-10 kw Major Manufacturer
Fuel Cell Technologies Ltd. (fct)
SOFC 1kw-75kw Stationary
Fuel Cells (scotland) ltd
SOFC Development Company

SOFC Developer
Functional Coating Technology, llc (fct)
SOFC chp Developer
GE Energy, Hybrid Power Generation Systems
SOFC 3kw-10kw Major Manufacturer
GE Fuel Cells
SOFC Manufacturer 6kw
General Research Institute for Nonferrous Metals
SOFC Materials Manufacturer
Gett Fuel Cells International AB
Ltsofc Manufacturer
Georgia Tech Research Corporation
Nanomaterials for SOFC
Great Western Minerals Group Ltd
Rare Earth Mineral Supplier
Goeta Technology Developer International
SOFC Manufacturer
Hefa Rare Earth Science & Technology Development Company
SOFC Materials Manufacturer
Haiku Tech Inc.
SOFC Materials
Haiku Tech Europe B.V.
SOFC Materials and Manufacturing Equipment
Hanyang University
Ni-ysz Nanopowder for SOFC
Hexis AG
SOFC chp Major Manufacturer
Hitachi Metals
SOFC Bipolar Plate Manufacturer
Hosokawa Micron Corp.
Nanostructured SOFC Developer
H.C. Starck GMBH & CO. kg
SOFC Stack Major Manufacturer
Helbio S.A.
H2 Reforming Systems, Catalyst
Hidrener Hydrogen Energy Systems Inc.
PEMFC Installer, H2 Fueling
Htceramix SA
SOFC Stack Developer

Huazhong University
R&D H2 Storage & pem Membrane, Nanotechnology
igr Enterprises, Inc.,
SOFC Materials Manufacturer
Infinity Fuel Cell and Hydrogen, Inc.
Xstorra SOFC Regenerative Fuel Cell Manufacturer
itn Energy Systems, Inc.
Planar Oxide Stabilized Metal Nanoparticle Catalysts
Kainos Energy Corporation
SOFC Materials Developer
J-power/electric Power Development Co., Ltd
SOFC 150kw
Jfcc & Noritake Co., Ltd.
Nanoporous H2 Separation Membrane
Kyocera Corporation
SOFC Major Manufacturer chp
Leibniz-institut Fuer Neue Materialien GMBH (INM)
SOFC Materials Research
Lilliputian Systems
SOFC Micro System Manufacturer
Massachusetts Institute of Technology (MIT)
Physical Vapor Deposited Nano-composites for SOFC Electrodes
Materials and Systems Research, Inc.
SOFC Developer 300w-3kw
Meidensha Corp.
SOFC 125kw Systems
MEL Chemicals
SOFC Materials Manufacturer
Missouri University of Science and Technology
SOFC and Oxygen Separation Materials
Mitsubishi Materials Corp.
SOFC Developer
Mitsubishi Materials
SOFC Materials R&D
Mitsubishi Heavy Industries, Ltd.
SOFC Manufacturer
Mitsubishi Materials Corporation
SOFC Manufacturer
Morgan Fuelcell

SOFC & Mcfc Materials Manufacturer
Motorola, Inc.
SOFC Developer
Murata Manufacturing CO.
SOFC Research
Nanocerox
Mixed-metal Oxide Spherical Nanopowders
Nanodynamics
SOFC Microtubular Manufacturer
National Institute for Materials Science (NIMS)
Nanomaterials R&D for PEMFC, SOFC, DMFC & H2
Naval Undersea Warfare Center
SOFC Evaluation
Netherlands Energy Research Foundation,
SOFC Research
Nextech
SOFC Manufacturer
Nextech Materials, Ltd
Nanoscale and Micron-scale Zirconia- and Ceria-based Materials
It-sofc Nanoscale Catalyst Cathode Enhancement
Nissan Chemical Industries, Ltd.
Nano Zirconia SOL
Nippon Telegraph and Telephone Corp
SOFC Developer
Norwegian Electro Ceramics (norecs) AS
Probe for Measuring SOFC Temperatures
Northwestern University
High Performance Nano-crystalline Oxide Fuel Cell Materials:
Northwest Mettech Corp.
SOFC Manufacturing Equipment for Components
Okayama University
SOFC Anode Film by Microwave Fabrication
Osaka gas Co., Ltd
SOFC Developer and Installer
Oxford Catalysts Group PLC
SOFC Catalyst Manufacturer
Pacific Northwest National Laboratory (PNNL)
SOFC Materials R&D
SOFC Materials R&D (continued)

Pirelli Labs
Micro SOFC Developer
Plansee SE
SOFC Materials
Protonex Technology Corporation
SOFC Manufacturer
Refractory Specialties Inc.
Kiln Furniture for low Cost SOFC Manufacturing
Research Centre Julich
SOFC R&D
Rolls-royce Fuel Cell Systems Limited
SOFC Manufacturer mw
Rolls-royce Fuel Cell Systems (US), Inc.
SOFC Manufacturer
Royal Institute of Technology
SOFC Research
Sanyo Electric Co., Ltd.,
SOFC Patent Holder
Shanghai Institute of Ceramics
SOFC Materials R&D
Sofco-EFS
SOFC Fuel Processor, Acquired by Rolls Royce 2007
Sofcpower
SOFC Manufacturer
Solid Cell Inc.
SOFC Developer and Manufacturer
Solid State Energy Conversion Alliance (SECA)
U.S. SOFC Research Coordinator
Spinworks LLC
Low-cost High-temperature Heat Exchanger for SOFC
Staxera GMBH
SOFC Manufacturer
Sulzer Metco
SOFC Materials
Sunny Albany, Nanofab
Nano-cermet Sensor for SOFC
Swiss Federal Institute of Technology
Micro SOFC Developer, Nanoscale Electrolyte
TDA Research

SOFC Materials Developer
Technology Management, Inc.
SOFC Fuel Reformer
Topsoe Fuel Cell
SOFC Manufacturer
Toho gas Co., Ltd.
SOFC Developer
Toto
SOFC Manufacturer
Treibacher Industrie AG
SOFC Materials Manufacturer
Tufts University
Nanostructured, Metal-ion Modified Ceria and Zirconia Oxidation Catalysts
Union Research Center of Fuel Cell on Coal Gasification
SOFC Research
Unitec Ceramics Ltd
SOFC Materials Manufacturer
US Nanocorp Inc.
SOFC Materials Manufacturer
UTC Power Corporation
SOFC 100kw Developer
UTC Fuel Cells, llc
Ceria-based Mixed-metal Oxide Nanocrystallite Structure for SOFC
Versa Power Systems
SOFC Micro Systems Manufacturer
Virginia Tech
SOFC, PEMFC, H2 Research
Wartsila Corporation
SOFC Developer 20kw
Ztek Corporation, Inc.
SOFC Manufacturer

HYDROGEN PRODUCTION & STORAGE COMPANIES

Accentus PLC
Hydrogen Reformer Manufacturer
Acciona Energy S.A.
H2 Production From Wind Power
Adnavance Technologies Inc.

Nano-biotechnology for H2 Production
air Products
H2 Fueling Stations Manufacturer
air Liquide
H2 Production, Storage, Infrastructure & Fueling
Alternate Energy Corporation
H2 on Demand
Alternative Fuel Systems inc
H2 & fc Integrator
Alvatec Production and Sales Gesmbh
H2 Fueling & 2w PEMFC Battery Charger
American Hydrogen Corporation
H2 Production Ammonia Catalytic Electrolyzer
Aral
H2 Reformer Manufacturer
Asia Biogas
bio Hydrogen Production
Aspen Products Group, Inc.,
Robust, low Cost Membranes for H2 Production From Coal Derived Syngas
Avalence llc
Alkaline Electrolyzer for Distributed H2 Generation
Babcock-hitachi
PEM H2 Production Onsite
BASF
Nano Terephthalic Acid and Zinc Oxide for H2 Storage
Battelle Memorial Institute
Nano Titanium Dioxide for Storage and Release of Hydrogen
BC Hydro
H2 Infrastructure Developer
Beijing University of Chemical Technology
Silicon Nanotubes for Hydrogen Storage
Beijing Jinfeng Aerospace s&t Developments Company
H2 Production and Storage
Bloom Energy Corporation
H2 Electrolysis, SOFC Power
Blue Cell Energy
Marketer of Fuel Cells
BOC Group
H2 Major Manufacturer

BP PLC

H2 Major Manufacturer, H2 Infrastructure Developer

Canadian Hydrogen Energy Company

H2 Injection for Vehicles

Ceramem Corporation

H2 Separation Membrane

Chinese General Research Institute for Non-ferrous Metals

Nanomaterials for Hydrogen Storage

Casale Chemicals

H2 Electrolysis Equipment Manufacturer

Chevron Technology Ventures

H2 Production

Clearedge Power, Inc.

H2 & fc System Integrator

det Norske Veritas

H2 and fc R&D

Diamond Lite S.A.

H2 Plant Manufacturer

Efuel Technology

Regenerative Fuel Cell

Electric Hydrogen Inc. (?h!)

H2 on Demand

Eltron Research inc

H2 Production by Reforming

Enova Systems

Power Conversion for Fuel Cells

Environment Park S.P.A.

H2 Production

Euro-innovation

H2 Production From Waste

European Hydrogen Association

H2 Storage and Production Research

Table 3 European Hydrogen Association Members

H2 Fueling Stations

Exxonmobil

H2 Vehicle Reformer, Major H2 Producer

H2 Vehicle Reformer, Major H2 Producer (continued)

Firmgreen, Inc.

H2 Reformers

Fuelmaker Corporation
Onsite H2 Refueling Systems
Fuelsell Technologies, Inc.
Carbon Nanotubes and Nano Hydrides for Cassette-based Hydrogen Storage
GE Jenbacher
H2 for Vehicles and Stationary FC R&D
General Hydrogen
H2 for Vehicles
Gesellschaft fur Elektrometallurgie (GFE)
H2 Storage & SOFC Materials Manufacturer
Hydrogen Technologies/ Statoilhydro
Electrolysis Equipment
GE Global Research
Lightweight Intermetallics for Hydrogen Storage
Global Hydrofuel Technologies, Inc.
H2 on Demand
Green Fuel Resources PTE Ltd
Solar H2 Production
Green Hydrotec, inc
H2 Production, Catalytic Membrane Reactor
GS-caltex Corporation
H2 Fueling Stations Manufacturer
HGEN
Hydrogen Production Technology
Hgenerators
H2 PEM Electrolyzer
H2 Logic
PEMFC and H2 Fueling Integrator
H2gen Innovations
H2 Onsite Generation
H2 Distributed Generation
Hewlett-packard Development Company, L.p.
Silicon Nanowire for Hydrogen Fuel Storage
Hydrogen Technologies
H2 Fueling Stations, Water Electrolysis
Harvest Energy Technology, Inc.
Advanced Fuel Processors
HBT
Hydrogen Processor: Under-oxidized Burner

HEC Consulting
Solar Thermal H2 Production
HSM Systems Inc.
Merchant Hydrogen
Hygear
H2 Generation Systems
Hyradix
Onsite Hydrogen Generation
Hydrogen Power Inc.
H2 Reforming for Vehicles and Stationary
Hydrogen Solar Ltd
H2 Chemical Production Developer, Nanotechnology
Nano-crystalline Material Hydrogen Production
Hytron
H2 Reformers for Vehicles
IgH2
H2 and Fuel Cell Integrator
ILT Technology
Manufacturer of H2 Generators
IMM - Institut für Mikrotechnik Mainz GMBH
H2 Reformer, PEMFC Demonstrations
Innovatek
H2 Reformer for Vehicles
International Development Consultants, Inc.
H2 Onsite Production With Wind
Iwatani International
H2 Fueling
Hygear B.V./ Jacques Smolenaars
H2 Fueling, Fuel Cell Manufacturer
Japan Air Gases
H2 Fueling for Vehicles
Kaldien
H2 Fueling
Korea Institute of Science and Technology
Nano-laminated CR2ALC Ternary Carbide for PEMFC Bipolar Plates
Kraus Global Inc.
H2 Fueling Vehicles & Stationary FC
Kyungwon University
Nanostructured Fuel Cell Materials.

Lawrence Berkeley National Laboratory
Nano H2 Storage
3-d Nanoscale Fuel Cells on a Chip Using Nanowire Alloy
3-d Nanoscale Fuel Cells on a Chip Using Nanowire Alloy (continued)
Nanoporous Metal-inorganic Materials for Hydrogen Storage
Nanostructured Pems
Linde Group
Linde
H2 Major Manufacturer, H2 Fueling Stations
H2 Major Manufacturer, H2 Fueling Stations (continued)
Lygan Technologies
Hydrogen Storage R&D
Massachusetts Institute of Technology (MIT)
High Throughput Screening of Nanostructured Hydrogen Storage Materials
Magna Steyr
H2 Storage Tanks for Vehicles
Mahler ags GMBH
H2 Onsite Production
Membrane Reactor Technologies Ltd (MRT)
H2 Reforming and Purification
Mesofuel, Inc.
H2 on Demand From Multiple Fuels
Metalysis
H2 Storage Alloy
Methanex Corporation
Methanol Manufacturer
Micro Motion
H2 Measurement Sensors
Molecular Optoelectronics Corporation
Fiber Optic Hydrogen Sensors Based on Nanosized Metal Alloys
Myfc AB
Portable PEMFC, SOFC
Nanologix
H2 Production
National Institute of Standards and Technology (nist)
Metal-decorated Nanotubes as Fuel Cells
Figure 3 Metal Decorated Nanotube
Nist: Hydrogen Storage in Ethylene-titanium Complex
Metal-organic Framework Nano-cages for H2 Storage

National Renewable Energy Laboratory
1617 Cole Blvd.
Nanostructured Adsorbents for Hydrogen Storage
Ngimat Company
Novel Nanocatalyst Materials for H₂ Production
N-ghy, S.A.
Fuel Processors for Fuel Cells
Nippon Sanso
H₂ Manufacture, Fueling Stations
oak Ridge National Laboratory (ornl)
Nanomaterials for Hydrogen Storage
Oxford Catalysts Group PLC
H₂ Distributed Production
Planet GBR
Wind-driven Electrolyzer, fc Integrator
Physical Optics Corporation
Photo-electrochemical System for Hydrogen Generation
Physical Sciences Inc.
Nanofiber Reinforced Ceramic Composites
Powernova Technologies Corporation
Hydrogen Production Technology
Praxair
Hydrogen Manufacturer
Procyon Power Systems
Hydrogen Production by Pyrolysis
Questair Technologies
Pressure Swing Adsorption (psa) Technology
Power & Energy, Inc.
Nanomaterials for H₂ Supply
POSCO
H₂ Production
Powdermet, Inc.
Titanium Foam for Hydrogen Storage Container
Purdue University
Nano Aluminum and Gallium Hydrogen Production
Oxford Lasers Ltd
SOFC Manufacturing Machinery Manufacturer
Quantum Fuel Systems Technologies Worldwide, Inc.
H₂ Production

Raufoss Fuel Systems
Manufacturer, H2 Storage Cylinders and Storage Systems
Reco
Solar H2 Production
Rentech, inc
gas to Liquids, Fuels for FC
Sacre-davey
Fuel Cell Integration Engineering Consulting
Safe Hydrogen llc
H2 Storage
Sandia National Laboratory
Nanoscale Additives for Sealing Solid Oxide Fuel Cell
Savannah River National Laboratory
Hydrogen Interaction Mechanisms With Metal-doped Carbon Nanostructures
Shell Global Solutions (UK)
Hydrogen Production From Natural gas and Ethanol
Shandong University
H2 Production
Shanghai Auto Industry Corporation
PEMFC for Vehicles
Shanghai Institute of Organic Chemistry
pem Research
Shell Hydrogen bv
H2, H2 Fueling Stations, Major Manufacturer
Showa Shell Sekiyu
H2 Fueling for Vehicles, H2 Manufacturer
Siam Water Flame CO. Ltd.
H2 Electrolyzer
Sinanen CO. ltd
Hydrogen and Fuel Cell Demonstration Project
H2 Major Manufacturer
South West Electrolysers
Water Electrolysis Equipment for the Production of Hydrogen
Startech/plasma Power
Hydrogen Production by Plasma Converter System
State University of new York at Albany
Metal Nanoparticle Doped ysz Nano-cermets
State University of new York at Albany
Feasibility of a SOFC Stack Integrated Optical Chemical Sensor

Sukan Engineering Pvt. Ltd.
Fuel Cell Test Station and Hydrogen gas Generating Plant
Sumisho air Water
H2 Fueling Station
Surfact Technologies, Inc.
SOFC Nanotechnology
Synkera Technologies, Inc.
Nanostructured CO Sensor for Fuel Cell Applications
Nanorod Array Photoelectrochemical Hydrogen Production
Tatung System Technologies, Inc. (tsti)
PEMFC R&D
Techdrive, Inc.
Design and Synthesis of Novel Microporous Materials for H2 Storage
Taiyo Nippon Sanso
H2 Manufacturer, H2 Fueling Stations
Tekion, inc
Formira™ Power Pack
Texas Tech University
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