

The Marketplace Matters Issue 28: Printer Friendly Version

The printer friendly version of the Marketplace Matters is grouped by Industry sector. In this issue you will find opportunities and information from our partners in the following sectors:

- Education and Outreach
- Stationary Power Applications
- Testing, Development & Manufacturing
- Transportation Applications
- Balance of Plant, Components, Materials and Sub Assemblies
- Events

Education and Outreach

Universities and Colleges: Natural Gas Fuelled Solid Oxide Fuel Cell Stack Modules for Testing and Development

Staxera develops Solid Oxide Stack Modules using Natural Gas for generator applications such as telecoms base stations and residential dwellings. Our modules are well designed for universities and colleges who are looking to incorporate SOFC technology into their programs. With our system you do not have to purchase a high temperature furnace and the necessary high temperature pre-heaters are easily sourced

http://www.fuelcellmarkets.com/staxera/forming_relationships/3,1,15168,18,28133.html?TMM=28

Fuel Cell Power : No 37 Summer 2009

At an international conference in Birmingham, manufacturers and users outlined progress in early markets and explained the action they are taking to bring hydrogen and fuel cell technologies into the mainstream.

http://www.fuelcellmarkets.com/fuel_cell_power/news_and_information/3,1,6250,1,28147.html?TMM=28

MHFCA to Hold Teleconference

In June, the MHFCA plans to hold a Telephone Conference in order to bring its members closer together.

http://www.fuelcellmarkets.com/marine_hydrogen_fuel_cell_association/news_and_information/3,1,12828,1,28128.html?TMM=28

Stationary Power Applications

Regenerative Fuel Cell Backup Power Systems: Is Dependable Backup Power Essential to your Operation?

Proton Energy Systems has a clean and reliable hydrogen-powered solution to meet your needs. Our regenerative fuel cell (RFC) systems offer modular, scalable, and rechargeable backup power systems that are superior to traditional lead acid batteries and diesel generator sets

http://www.fuelcellmarkets.com/proton_energy_systems/forming_relationships/3,1,427,18,28131.html?TMM=28

Seeking Generator and System Integrator Partners for our Modular 2-8kW PEM Stack Technology

PEM fuel cells offer many advantages over traditional diesel generators, they are quiet, produce no harmful emissions, can be integrated with renewables and offer reduced maintenance costs. Nedstack is primarily a producer and supplier of PEM fuel cell stacks. The accumulated system design know-how enables NedStack to design better stacks, and helps to support its customers. Having already proved it's technology for generator applications with a number of partners, Ned Stack is looking for additional generator / system integrator partners.

http://www.fuelcellmarkets.com/nedstack/forming_relationships/3,1,1710,18,28132.html?TMM=28

Looking for Partners to Trial & Deploy our Backup Power Fuel Cell Technology into the North American UPS and Telecoms Market

Traditional forms of backup / standby power have their limitations. Generators are notoriously unreliable and require frequent maintenance. Batteries require space and cooling and have a limited autonomy. Particularly in remote locations, fuel cells offer a range of benefits (see Benefits) for North American countries. Dantherm Power is looking for telecom partners to work with on taking our fuel cell backup power products to market.

http://www.fuelcellmarkets.com/dantherm_power/forming_relationships/3,1,11472,18,28134.html?TMM=28

SEC is looking for new partners to promote its expanding Solar Products business

SEC Industrial Battery and Solar Products manufacturer is now looking for distributors and agents to represent and promote their new range of innovative Solar products around the world. Products Though our extensive experience stretching over 30 years in the field, SEC has developed several new Solar products that provide the highest levels of technology and quality available in the marketplace today, and offer a real alternative to the traditional methods that are still used in many areas.

http://www.fuelcellmarkets.com/sec_industrial_battery_company/forming_relationships/3,1,312,18,28130.html?TMM=28

NDCPower is looking to partner with OEM's and Existing Power Solution Providers to the Remote Surveillance and Monitoring Market

In many remote monitoring and surveillance applications, batteries are unable to provide an ideal autonomy. NDCPower's fuel cell technology provides a cost effective means of providing reliable power for longer than batteries.. We are proud to introduce Eos, our Direct Ethanol Fuel Cell Technology, that can be used across a broad spectrum of product applications in a practical and commercially viable manner. No trade-offs.

NDCPower is looking for original equipment partners for remote surveillance and monitoring.

http://www.fuelcellmarkets.com/ndc_nanomaterials_discovery_corporation/forming_relationships/3,1,6899,18,28045.html?TMM=28

Looking for Partners to Develop Waste to Energy Projects in the USA Using our Low Cost Fuel Cell Technology

AFC energy are looking to build upon the success and technological advancements made within the Energy from Waste (EfW) industry by offering a more efficient gas to electricity process. AFC's Alkaline fuel cell technology has been developed for the chlor-alkali industry for onsite power production through the conversion of Hydrogen directly to Electricity onsite.

http://www.fuelcellmarkets.com/afc_energy/forming_relationships/3,1,13903,18,27808.html?TMM=28

Logan Energy is Looking to Expand it's Portfolio of Fuel Cell Partners

Logan Energy is the established expert on energy solutions harnessing the power of hydrogen & fuel cells to provide clean energy solutions. Being independent of both manufacturer and technology enables Logan Energy to provide impartial advice on the alternative energy option that today's hydrogen technologies offer. It is this independence that allows us to deliver the right solution for each and every application.

http://www.fuelcellmarkets.com/logan_energy/forming_relationships/3,1,27362,18,28055.html?TMM=28

Gas Utilities: Highly Efficient and Non-Combustion Based System for Natural Gas Utility Letdown Stations

FuelCell Energy, Inc.TM, in cooperation with Enbridge, Inc., introduces the Direct FuelCell-Energy[®] Recovery GenerationTM ("DCF-ERG") system, a hybrid fuel cell/gas turbine solution for use in gas pipeline letdown applications. The DCF-ERG system is a hybrid power plant ideally suited for urban settings and utilizes energy that would otherwise be lost. The system comes in varying sizes to address a multitude of pressure reduction and flow conditions. The DCF-ERG system offers an electrical efficiency of over 60%, negligible emissions of pollutants such as nitrogen oxides (NOx) and sulphur oxides (SOx), and dramatically reduced CO₂ greenhouse gas emissions in comparison to traditional fossil fuel technologies.

http://www.fuelcellmarkets.com/fuel_cell_energy/forming_relationships/3,1,11275,18,27444.html?TMM=28

Seeking Partners to Develop the Markets for 200-500 Watt Fuel Cell Power Systems

With rising fuel prices, health & safety regulations and environmental restrictions there is increased pressure to look at technologies with greater fuel diversity, less harmful emissions, better fuel efficiency, lower weight and quieter operation. ND Energy's solid oxide fuel cell generator provides all of these benefits and more. Having already established our 50 and 60 watt fuel cell products, we are looking for partners to work with us to develop products in the 200 – 500W range across a range of applications.

http://www.fuelcellmarkets.com/nano_dynamics_energy/forming_relationships/3,1,13868,18,27427.html?TMM=28

Looking for Partners and Projects for our New Electrolysers

The Pure Energy Centre has developed a state of the art electrolyser technology, which we believe significantly outperforms the competition. We are looking for additional partners to work with us on taking this to market.

http://www.fuelcellmarkets.com/pure/forming_relationships/3,1,11952,18,27586.html?TMM=28

IdaTech is Looking for Distributor and Agent Partners for its ElectraGen™ family of Backup Power Fuel Cell Systems in Korea and Taiwan

IdaTech, LLC, is looking for partners to assist with the sales and distribution of the company's backup power Fuel Cell systems in Korea and Taiwan.

http://www.fuelcellmarkets.com/idatech/forming_relationships/3,1,599,18,27561.html?TMM=28

Introducing BlueGEN - CFCL New Product Launch

BlueGen™ utilises the latest Gennex™ fuel cell module that offers the highest levels electrical efficiency in the world – 60% net electrical efficiency. This means BlueGen™ produces more electricity from the same amount of fuel compared to traditional small scale electric generators.

http://www.fuelcellmarkets.com/ceramic_fuel_cells/news_and_information/3,1,443,1,28091.html?TMM=28

Testing, Development & Manufacturing

ENrG Offers Ceramic Manifold / Heat Exchanger / Insulation

ENrG designs and manufactures advanced ceramic components that can include the manifold, heat exchanger and insulation functions all in one package for high temperature applications. We combine advanced ceramic materials and coatings to produce this single component that can provide any or all of the functions to shield internal operating temperatures up to 1260°C.

http://www.fuelcellmarkets.com/enrg_inc/forming_relationships/3,1,9484,18,28144.html?TMM=28

Hydrogen Sensor - Reliable, Quantitative, No False Positives, Insensitive to Humidity, High Selectivity, Rapid Response & Recovery

exTech Materials, Ltd. is pleased to announce the launch of its hydrogen sensor. Designed for hydrogen safety monitoring, this ceramic sensor exhibits a highly sensitive, selective, and rapid response in the presence of hydrogen. Prototype sensors have been delivered to strategic partners, for validation testing of this revolutionary device, and our initial feedback has been overwhelmingly positive. NexTech will ship production quantities in the fourth quarter of 2009.

http://www.fuelcellmarkets.com/nextech_materials/forming_relationships/3,1,722,18,28141.html?TMM=28

New Product Development

Cabot has a long history of creating businesses and developing performance products through working with partners and customers. We understand your needs and deliver innovative solutions by exploiting both our basic particle-related competencies along with developing innovations and partnerships. As a global performance materials company, we are constantly scouting for new opportunities. This drives us to examine trends in the world's markets and technologies, and to identify key areas where we can create value. We then work with partners and customers to create programs to address the needs in these areas through: Internal research projects driven by close external relationships, Cooperative research, including joint development programs & Other approaches, such as government programs with partners.

http://www.fuelcellmarkets.com/cabot/forming_relationships/3,1,6270,18,27799.html?TMM=28

The CPI Low Carbon Energy Network is looking to expand its membership across the Hydrogen & Fuel Cell supply chain

The Low Carbon Energy Network is a continuation of the successful North East Fuel Cell Cluster and is now dedicated to enhancing the chemical process elements of the Low Carbon Energy sector in North East England. The network maintains a special interest in fuel cells and hydrogen.

We are looking to expand our membership across the hydrogen and fuel cell supply chain. If your company is interested to learn how its products and services can expand into the fuel cell & hydrogen sector, or if you are developing a technology for this sector and are looking for assistance, please contact us.

http://www.fuelcellmarkets.com/cpi/forming_relationships/3,1,7855,18,28041.html?TMM=28

Transportation Applications

Turn-key hydrogen refuelling stations

H2 Logic supply turn-key hydrogen refuelling stations for material handling & road vehicles, configured to satisfy your needs concerning refuelling pressure and capacity. Stations can be designed for a wide range of applications & serve small to large fleets of vehicles.

http://www.fuelcellmarkets.com/h2_logic/forming_relationships/3,1,6459,18,28135.html?TMM=28

Looking for Fuel Cell and Hydrogen ICE Vehicles for the H2seed Project

Comhairle nan Eilean Siar wishes to procure a number of fuel cell or hydrogen ICE vehicles as part of the Hebridean Hydrogen Park Project. The vehicles will be passenger or utility vehicles suited to the operational requirements of the Comhairle. This includes: Passenger vehicles, Small and medium sized vans, Utility vehicles and Buses. We are seeking expressions of interest from companies and organisations willing to supply, or engage in the development and deployment of: Road-legal hydrogen Fuel Cell or ICE vehicles; or, Hydrogen conversion systems for existing ICE vehicles.

http://www.fuelcellmarkets.com/energy_innovation_zone/forming_relationships/3,1,14514,18,27773.html?TMM=28

WORLD CHANGING OVER TO GREEN VEHICLES!

The New Automotive Innovation Growth Team (NAIGT) which is sponsored by the UK Government, has made proposals for reducing carbon dioxide emissions, which will help to meet European targets for new passenger cars. There will be increasing penalties for emitting carbon dioxide but low-carbon vehicles will gain 'super credits' which will favour electric vehicles.

http://www.fuelcellmarkets.com/green_motorsport/news_and_information/3,1,388,1,28148.html?TMM=28

Balance of Plant, Components, Materials and Sub Assemblies

Looking to form Partnerships with Methanol Fuel Cell Cartridge Developers

We are looking to form partnerships with methanol fuel cell cartridge developers to provide a complete cartridge and fuelling infrastructure solution to the fuel cell industry. We have a global distribution network that will enable cartridge developers to offer their customer the security of supply of methanol fuel for their cartridges around the world. We are looking for partners who are currently developing cartridges for methanol fuel cells to provide a complete sales solution to end users.

http://www.fuelcellmarkets.com/hayman/forming_relationships/3,1,13694,18,14366.html?TMM=28

High Temperature Membrane and Membrane Electrode Assemblies for Portable Proton Exchange Membrane Fuel Cell Applications

The operation of polymer electrolyte (PEM) fuel cells at temperatures above 150°C offers very significant advantages. Among others, the tolerance of the catalyst is increased allowing the use of reformed hydrogen with high CO content, the kinetics of both electrodes is enhanced and the thermal management is easier comparing to conventional PEM fuel cells. One of the main activities of ADVENT TECHNOLOGIES S.A, is focused on the systematic development and production of polymer membranes and MEAs for high temperature PEM fuel cells.

We are looking to partner with portable PEM fuel cell stack/system developers who are interested in developing High Temperature PEM fuel cells.

http://www.fuelcellmarkets.com/advent_technologies/forming_relationships/3,1,15017,18,28047.html?TMM=28

Events

Full Oral Programme Announced

We are pleased to announce the 2009 programme is now available. Don't miss out on this years Grove Fuel Cell Symposium. The deadline for the Early Bird rate is 30 July 2009, which could SAVE you €115 on the standard delegate rate.

http://www.fuelcellmarkets.com/grove_fuel_cell_symposium/news_and_information/3,1,910,1,28142.html?TMM=28

Optimism at the Group Exhibit Hydrogen + Fuel Cells at HANNOVER MESSE 2009 - Already 47 exhibitors registered for 2010

148 exhibitors from 22 countries took part in the Group Exhibit Hydrogen + Fuel Cells at the HANNOVER MESSE 2009, April 20-24. The opening press conference with the German Federal Minister of Transport Wolfgang Tiefensee was the highlight of the week-long event. By closing time on Friday, already 47 exhibitors registered to participate again at the HANNOVER MESSE 2010.

http://www.fuelcellmarkets.com/fair_pr/news_and_information/3,1,828,1,28145.html?TMM=28

Fuel Cells: The New Generation of Green Power

33 years ago, the Fuel Cell Seminar & Exposition (FCS&E) was developed with one simple and absolute mission: To advance the global energy, environmental, and economic benefits offered by fuel cell technology through the promotion of Technical Excellence, Education, Outreach, Demonstration, and Product Commercialization.

http://www.fuelcellmarkets.com/fuel_cell_seminar/news_and_information/3,1,9141,1,28146.html?TMM=28