



Hydrogen + Fuel Cells 2009 (HFC2009)  
 Vancouver, Canada, May 31 – Jun 03, 2009

## Invitation

Arno A. Evers, the founder of the Group Exhibit Hydrogen and Fuel Cells at the annual HANNOVER FAIR in Germany since 1995 will be presenting a poster here!

Title of Arno's poster: **Implementation of hydrogen and fuel cells: A vision for the future?**

You are most welcome to further explanations on this topic during the opening time of the conference >> Session Date/Time: **Monday, June 1 to Wednesday, June 3, 2009**



**General Energy Overview**

Today's Energy Balance, especially the production and distribution of electricity, is rather uneconomical worldwide ...



**World Energy Balance 2005**

In 2008 more than half of the world's population is living in towns and cities. By 2010 this number will swell to almost 5 billion.

**Current Hydrogen Production**

Today's production of hydrogen, its distribution, storage and utilization are dependent upon conventional technologies, which are not commercial feasible at this time ...



*All sources of renewable energies have to be utilized*

**Implementation of hydrogen and fuel cells:  
A vision for the future?**

**Direct Solar Hydrogen Production**  
at the "Plataforma Solar de Almeria" (PSA), Spain



Successfully set up in 2008 by German Aerospace Center (Deutsches Zentrum für Luft- und Raumfahrt; DLR) in the context of the HYDROSOL I and II EU projects

**Direct Solar Hydrogen and Fuel Cells**

**Future Hydrogen Developments**

The ultimate target for future hydrogen production must be, to utilize all existing renewable energies to produce hydrogen directly with only one conversion step ...

**Conclusion towards the Hydrogen Society**

Sustainable hydrogen has to be produced from all "real renewable" primary energy sources and distributed in a new way, free of pollution and losses ...

**Change of Perspective Needed**

A new, global perspective regarding the production, distribution and use of energy is unavoidable and has to come soon, with personal engagement of many ...

**Global applications of Personal Power Providers (3P+)**



**Your Personal Power Provider (3P+)**



All Renewable Energies Input >>> Output All personal power demands

**Use of a Personal Power Provider (3P+)**



All Renewable Energies Input >>> Output All personal power demands

*The overall efficiency of such new, disruptive and decentralised power supplies is far better than any of today's existing energy systems!  
 Personal Power to the People!*

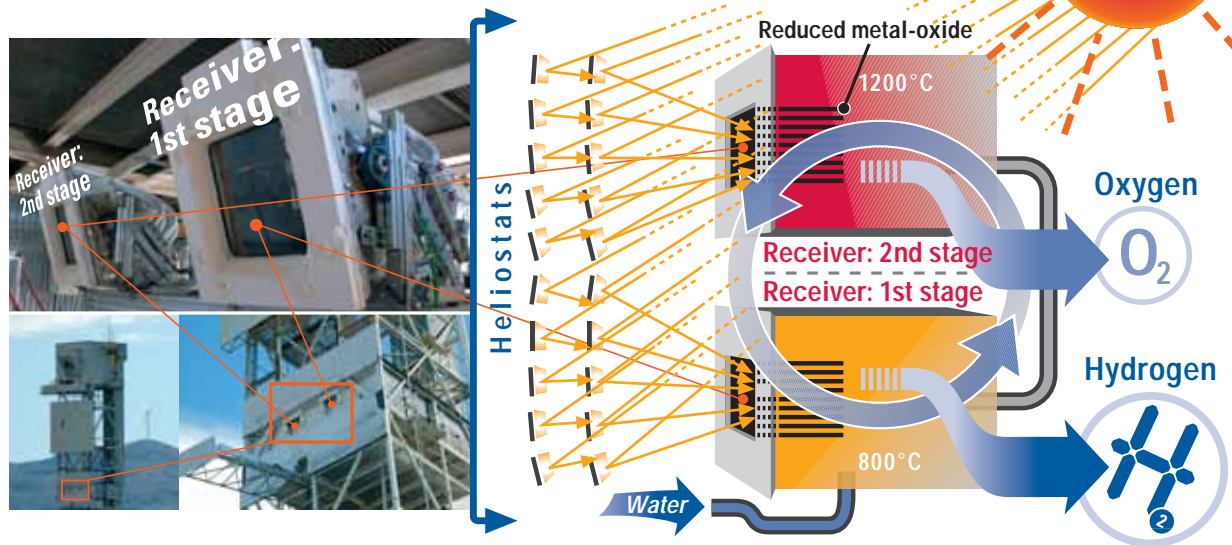


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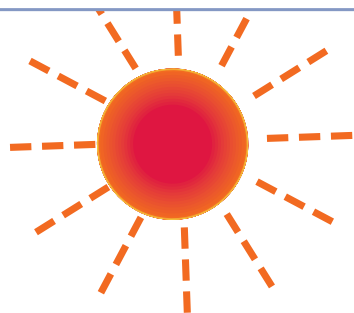
>> Call Arno at the Vancouver area on his German cellular: +49 172 832 6888



# Direct Solar Hydrogen Production at the "Plataforma Solar de Almeria" (PSA), Spain



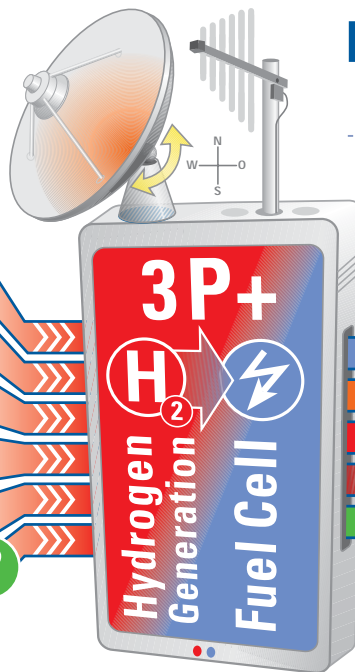
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## Your Personal Power Provider (3P+) *scalable from mW to MW*

Hydrogen direct ...

- ... from Solar
- ... from Wind
- ... from Bio
- ... from Hydro
- ... from Geo
- ... from New Sources ?



Electricity  
24V > 48V DC

Heat for heating/cooling

Hydrogen for transport

Domestic hot/cold water

New Application ?

All Renewable Energies **Input** >>> **Output** All personal power demands

>> Please check your participation at the H2FCVirtualFAIR: [www.virtual-fair.com](http://www.virtual-fair.com)

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