

Solar Summits Freiburg

International Conference on Renewable
and Efficient Energy Use

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Future Mobility – Mobility Concepts on the Basis of Renewable Energies at Solar Summit Freiburg 2010

From 13 to 15 October 2010, internationally renowned representatives from the fields of industry and science will be discussing the issue of electromobility in Freiburg, Germany

Mobility forms of the future is the focus of this year's international Solar Summit Freiburg congress , taking place from 13 to 15 October 2010 at Freiburg Concert Hall. International experts from the automotive industry, the electricity sector, the field of hydrogen and fuel cell technology as well as from the battery systems sector will be presenting innovative vehicle and drive concepts and discussing state-of-the-art solution approaches and practical reports relevant to the issue of "sustainable electromobility".

Intelligent mobility concepts of the future

The sustainability of alternative vehicle concepts is nowadays a criterion key to their social acceptance and future market success. In the evaluation of such concepts, environmentally friendly operation, local emission elimination and energetic efficiency as well as the security and economic feasibility of fuel supply all play a central role. These criteria are best met by way of the usage of renewable energies for generating electricity and hydrogen.

The rapidly growing share of renewable energies in terms of power generation requires the development of intelligent network management concepts combined with efficient storage technologies for the interim storage of renewable electricity in view of the intermittent

nature of the energy sources concerned. Best suited for this purpose are batteries and, for large quantities of energy, notably hydrogen which can be produced in this way without any emissions at all. The energy system of the future will therefore be characterised by a diversification of energy sources as well as via the electrification of energy supplies.

Mobility and energy provision consequently form a system the individual components of which interact in an integrated manner, thus developing their full potential.

The transport sector is currently responsible to a large extent for climate-relevant pollutant emissions, a situation that can be improved via the electrification of drive units and the use of renewable energy resources. Particularly in the case of vehicle-related applications, electric drives combined with electrochemical storage options guarantee unique benefits such as the elimination of local emissions (pollutants and noise), high efficiency and flexibility.

Solar mobility puts the focus on solar energy and biogenic fuels as sources of renewable energy - solar power is used for charging batteries or is stored in the form of hydrogen, which is then employed in fuel cells. Biogenic fuels reduce the consumption of conventional fossil fuel resources in hybrid vehicles.

Throughout the world, researchers and developers are working flat out on new technical solutions for the application of renewable energies in the field of electromobility. In this way, mobility will gradually become less dependent on crude oil and based increasingly on regenerative energy resources.

Focal areas at Solar Summit 2010

Solar Summit is concentrating above all on progress in developing environmentally friendly and sustainable drive and vehicle concepts as well as on their implementation in the market. Apart from technical aspects, the challenge focuses on the development of such economically feasible business models as are accepted by customers and result in the rapid spread of the vehicles concerned.

Dr. Christopher Hebling, Head of Department Energy Technology at the Fraunhofer Institute for Solar Energie Systems ISE:

“Solar Summit 2010 will be a summit meeting on the future of renewable electromobility. With internationally leading researchers and developers as well as representatives of industry taking part, the congress aims to provide an general overview of developments in the field of renewable energy resources and their contribution to drive technology and

future sustainable mobility. A major feature of Solar Summit will be the plenary round-table sessions at which presentations given by experts in the given areas will be discussed together with the participants in terms of the technical challenges involved and economic feasibility.”

Other areas under discussion include drive technology as well as battery systems, network integration, hydrogen generation, fuel cell technology, biogenic fuels and the development of urban mobility. The general political framework underpinning electromobility and the requirements urban infrastructure is expected to meet are further key issues being addressed.

Fraunhofer ISE is the scientific partner of Solar Summit 2010

This year again sees the assumption of the general technical management of Solar Summit by Prof. Eicke R. Weber, Director of Fraunhofer Institute for Solar Energy Systems ISE and Dr. Christopher Hebling, Head of Department Energy Technology at ISE.

With a workforce numbering 930, Fraunhofer ISE is Europe’s largest solar research institute. The institute’s focus with regard to electromobility is on network integration, i.e. the interface between the electricity grid and storage facilities, hydrogen production, fuel cell technology and the processing of biogenic energy resources.

About the "Solar Summits Freiburg" conference series

"Solar Summits Freiburg" is a series of international conferences organized by Messe München GmbH partnership with the Fraunhofer Institute for Solar Energy Systems ISE as well as with FWTM - Freiburg, Wirtschaft, Touristik und Messe GmbH. This new series of conferences consists of annual events that will give participants a look at the latest scientific findings and their commercial implementation and use in the sector for renewable and efficient energy use. It is an outstanding international platform for the transfer of know-how between researchers, industry representatives and politicians.

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Messe München International (MMI) is one of the world's leading trade-fair companies. It organises around 40 trade fairs for capital and consumer goods, and key high-tech industries. Each year over 30,000 exhibitors from more than 100 countries, and over two million visitors from more than 200 countries take part in the events in Munich. In addition, MMI organises trade fairs in Asia, Russia, the Middle East and South America. With six subsidiaries abroad - in Europe and in Asia - and with 66 foreign representatives serving 89 countries, MMI has a truly global network.

Further information: www.messe-muenchen.de

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